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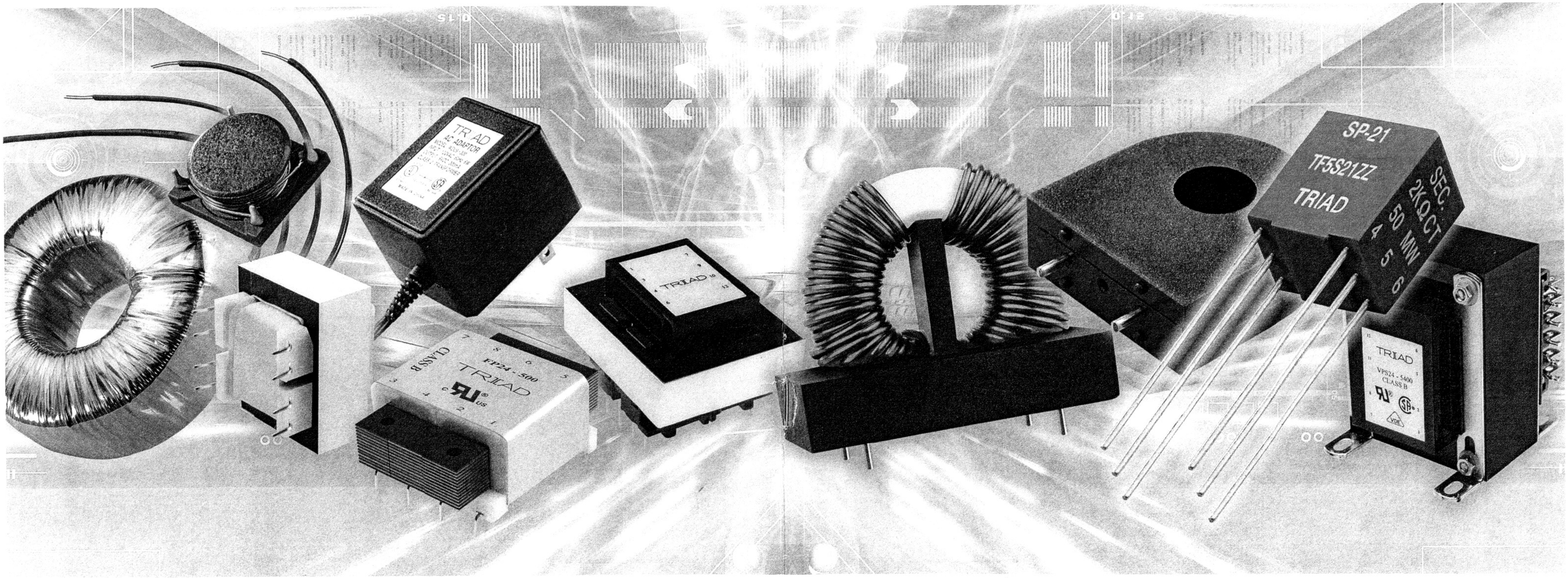
TRIAD



TRIAD
www.TriadMagnetics.com
22520 B Temescal Canyon Road, Corona, CA 92883
Phone 951-277-0757 | FAX 951-277-2757

NEMA

Doc 112005

MAGNETICS CATALOG

TRIAD MAGNETICS. YOUR INNOVATIVE PARTNER.

If you could look inside the most advanced computers, telecommunication systems, automation controls, audio devices and other equipment -- you would see many of them have something in common. They depend on innovative technology solutions from Triad Magnetics for power conversion, filtering, isolation and more.

For over 60 years, Triad has been an electronics innovator and a leader. Lewis W. Howard founded the company during the 1940s in Venice, California. He was a graduate of UC Berkley, a cofounder of the Wescon Trade Show and was recognized as a life member of IEEE for his contributions to the industry.

In the 1950s, Triad first helped Leo Fender and surf guitarist Dick Dale turn up the volume on amplifiers, which led to the birth of Rock & Roll. Triad was next the dominant supplier to the TV industry in the 1960s. Transformers from Triad also supported the Apollo mission to the Moon, and then the first microwave ovens in the 1970s. The Triad brand played a leading role in the rise of industrial automation and controls, electronic ballasts for lighting systems and innovative medical devices in the 1980-90s.

Today, you'll find Triad has emerged again as an innovative leader after a number of years as a successful division of the Litton, MagneTek and Parallax companies. Triad has returned to its roots in Southern California with a 22,000 square foot modern engineering and service center, which is conveniently located in Corona -- It is a subsidiary of the Axis Corporation, an electronics industry leader listed on the Taiwan stock market. The company's Taiwanese headquarters facility includes a design center with sophisticated R&D capabilities. Manufacturing facilities are located in Mainland China.

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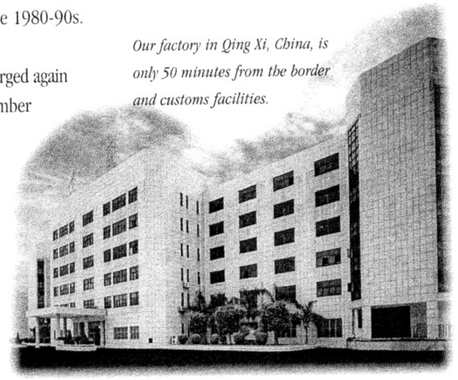
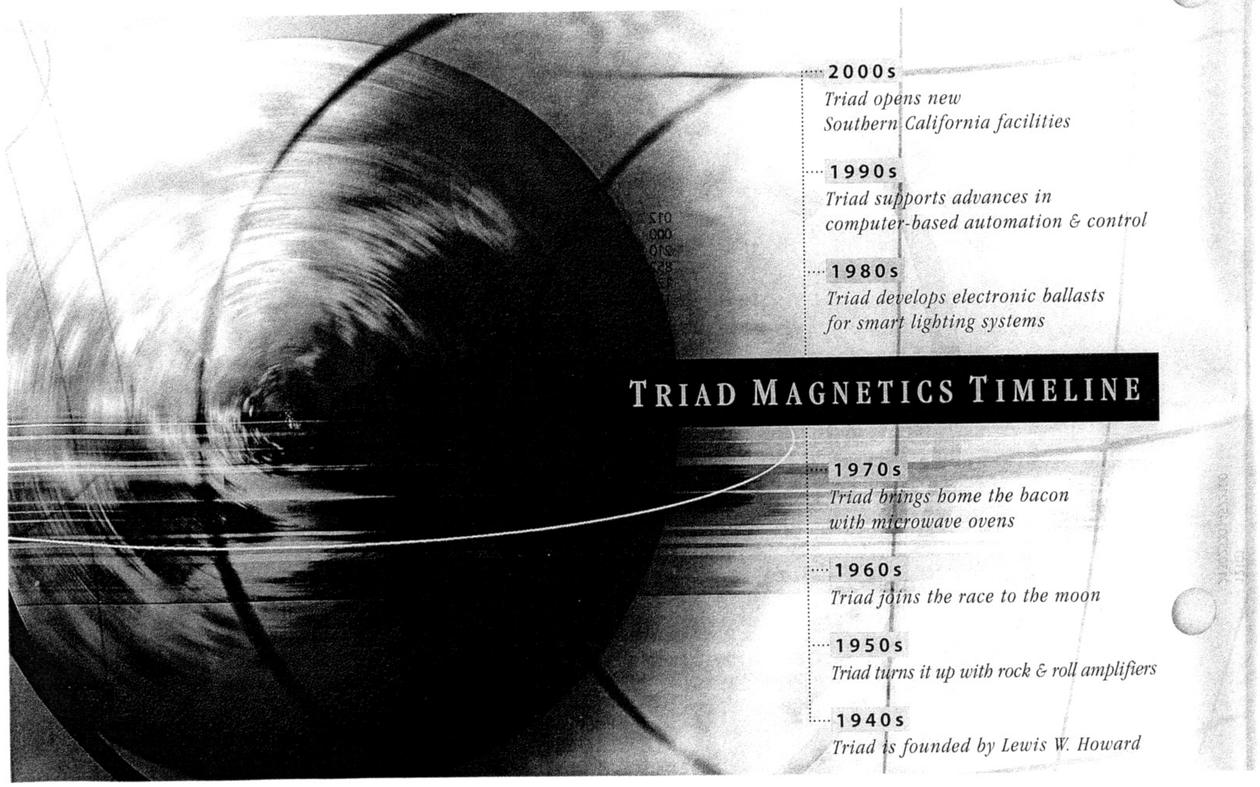


Our factory in Qing Xi, China, is only 50 minutes from the border and customs facilities.



TRIAD MAGNETICS TIMELINE

2000s
Triad opens new Southern California facilities

1990s
Triad supports advances in computer-based automation & control

1980s
Triad develops electronic ballasts for smart lighting systems

1970s
Triad brings home the bacon with microwave ovens

1960s
Triad joins the race to the moon

1950s
Triad turns it up with rock & roll amplifiers

1940s
Triad is founded by Lewis W. Howard

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RoHS Compliance

Triad Magnetics; a recognized leader in the magnetics industry for decades, has once again stepped out in front of the crowd by ensuring all of our catalog products are free of the hazardous materials called out in 2002/95/EC, known as the RoHS Initiative.

Please contact us at 951-277-0757 or consult our website at TriadMagnetics.com for any exceptions as well as compliance effective date codes for specific part numbers.

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FP20-300	45	B
FP20-600	45	C
FP230-10	45	A
FP230-25	45	B
FP230-50	45	C
FP24-100	45	A
FP24-1000	45	D
FP24-2000	45	E
FP24-250	45	B
FP24-500	45	C
FP30-1600	45	E
FP30-200	45	B
FP30-400	45	C
FP30-800	45	D
FP30-85	45	A
FP34-1400	45	E
FP34-170	45	B
FP34-340	45	C
FP34-700	45	D
FP34-75	45	A
FP40-1200	45	E
FP40-150	45	B
FP40-300	45	C
FP40-60	45	A
FP40-600	45	D
FP56-100	45	B
FP56-200	45	C
FP56-425	45	D
FP56-45	45	A
FP56-850	45	E
FP88-130	45	C
FP88-28	45	A
FP88-65	45	B
FS10-110	47	A
FS10-1200	47	D
FS10-2000	47	E
FS10-250	47	B
FS10-3600	48	A
FS10-600	47	C
FS120-01	47	A
FS120-02	47	B
FS120-05	47	C
FS120-100	47	D
FS120-160	47	E
FS120-300	48	A
FS12-090	47	A
FS12-1000	47	D
FS12-1600	47	E
FS12-200	47	B
FS12-500	47	C
FS12-2850	48	A
FS16-070	47	A
FS16-1250	47	E
FS16-150	47	B
FS16-400	47	C
FS16-800	47	D
FS16-2250	48	A
FS20-055	47	A
FS20-1000	47	E
FS20-120	47	B
FS20-300	47	C
FS20-600	47	D
FS20-1800	48	A
FS24-045	47	A
FS24-100	47	B
FS24-250	47	C
FS24-500	47	D
FS24-800	47	E
FS24-1500	48	A
FS28-040	47	A
FS28-200	47	C
FS28-420	47	D
FS28-700	47	E
FS28-85	47	B
FS28-1300	48	A
FS36-030	47	A
FS36-170	47	C
FS36-350	47	D
FS36-550	47	E
FS36-150	47	B
FS36-65	47	B
FS36-1000	48	A
FS48-023	47	A
FS48-050	47	B
FS48-125	47	C
FS48-250	47	D
FS48-400	47	E
FS48-750	48	A
FS56-020	47	A
FS56-045	47	B
FS56-110	47	C
FS56-220	47	D
FS56-350	47	E
FS56-650	48	A
GDE25-1	21	A
GDE25-2	21	A
GDE25-3	21	A
GDE25-4	21	A
GDE25-5	21	A
GDE25-6	21	A
N-1000MG	60	F
N-11M	60	H
N-11MG	60	H
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N-255MG	61	G
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N-259MG	62	B
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N-3MG	59	B
N-48X	61	A
N-4M	59	D
N-4MG	59	D
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N-73A	61	F
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N-77U	61	E
N-7M	60	E
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N-92MD	62	D
N-9M	60	G
N-9MG	60	G
RC-1	20	B
RC-2	20	B
RC-3	20	B
RC-4	20	B
RC-5	20	B
RC-6	20	B
RC-7	20	B
RC-8	20	B
RC-9	20	B
RC-10	20	B
RC-11	20	B
SP-4	7	A
SP-5	7	B
SP-13	7	C
SP-20	7	D
SP-21	7	D
SP-22	7	D
SP-29	7	D
SP-33	7	D
SP-42	7	D
SP-48	7	D
SP-49	7	D
SP-50	7	D
SP-51	7	D
SP-52	7	D
SP-66	7	D
SP-67	7	D
SP-68	7	D
SP-69	7	D
SP-70	7	D
SP-128	7	E
SP-310	7	E
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TCT40-02E07AB	64	
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TCT40-03E07AB	64	
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TCT40-10E07K	64	
TY-141P	8	A
TY-142P	8	A
TY-144P	8	A
TY-145P	8	A
TY-146P	8	A
TY-300P	9	M
TY-301P	9	G
TY-302P	9	N
TY-303P	9	H
TY-304P	9	F
TY-305P	9	A
TY-306P	9	B
TY-307P	9	C
TY-310P	9	D
TY-311P	9	E
TY-400P	9	I
TY-401P	9	J
TY-402P	9	K
TY-403P	9	L
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UT2020-003	18	A
UT2020-004	18	A
UT2020-005	18	A
UT2024-006	17	A
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UT2024-009	17	A
UT2024-010	17	A
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VPL10-500	43	A
VPL10-5000	43	D
VPL12-2000	43	C
VPL12-400	43	A
VPL12-4000	43	D
VPL12-800	43	B
VPL14-360	43	A
VPL16-1600	43	C
VPL16-300	43	A
VPL16-3100	43	D
VPL16-600	43	B
VPL20-1200	43	C
VPL20-250	43	A
VPL20-2500	43	D
VPL20-500	43	B
VPL2-10000	43	C
VPL2-4000	43	B
VPL24-1100	43	C
VPL24-2000	43	D
VPL24-210	43	A
VPL24-400	43	B
VPL25-1000	43	C
VPL25-1900	43	D
VPL26-1800	43	D
VPL26-190	43	A
VPL26-930	43	C
VPL28-1700	43	D
VPL28-180	43	A
VPL28-2000	43	E
VPL28-350	43	B
VPL28-900	43	C
VPL36-140	43	A
VPL36-1400	43	D
VPL36-300	43	B
VPL36-700	43	C
VPP10-250	39	A
VPP10-500	39	A
VPP10-1000	39	A
VPP10-2000	39	A
VPP10-3000	39	A
VPP10-5600	39	A
VPP12-200	39	B
VPP12-400	39	B
VPP12-800	39	B
VPP12-1600	39	B
VPP12-2400	39	B
VPP12-4400	39	B
VPP16-150	39	C
VPP16-310	39	C
VPP16-620	39	C
VPP16-1250	39	C
VPP16-1900	39	C
VPP16-3500	39	C
VPP20-120	39	D
VPP20-250	39	D
VPP20-500	39	D
VPP20-1000	39	D
VPP20-1500	39	D
VPP20-2800	39	D
VPP24-100	39	E
VPP24-210	39	E
VPP24-420	39	E
VPP24-830	39	E
VPP24-1250	39	E
VPP24-2330	39	E
VPP28-090	39	F
VPP28-180	39	F
VPP28-360	39	F

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Item No.	Page No.	Sect.	Item No.	Page No.	Sect.	Item No.	Page No.	Sect.	Item No.	Page No.	Sect.	Item No.	Page No.	Sect.	Item No.	Page No.	Sect.	Item No.	Page No.	Sect.
VPP28-720	39	F	VPS12-3400	41	B	VPS24-1800	41	E	VPS230-110	41	I	WAU20-500	66		WDU9-300	65		WDU18-200	65	
VPP28-1060	39	F	VPS12-6300	41	B	VPS24-3300	41	E	VPS230-190	41	I	WAU20-2000	66		WDU9-500	65		WDU18-250	65	
VPP28-2000	39	F	VPS12-10300	41	B	VPS24-5400	41	E	VPS230-350	41	I				WDU9-1000	65		WDU18-300	65	
			VPS12-14000	41	B	VPS24-7300	41	E	VPS230-570	41	I	WAU24-200	66		WDU9-1200	65		WDU18-600	65	
VPP36-070	39	G							VPS230-760	41	I	WAU24-450	66		WDU9-2300	65		WDU18-1000	65	
VPP36-140	39	G	VPS16-1600	41	C	VPS28-900	41	F				WAU24-750	66					WDU18-1400	65	
VPP36-280	39	G	VPS16-2700	41	C	VPS28-1500	41	F	WAU12-200	66		WAU24-1000	66		WDU12-100	65				
VPP36-560	39	G	VPS16-5000	41	C	VPS28-2800	41	F	WAU12-500	66		WAU24-1800	66		WDU12-300	65		WDU24-200	65	
VPP36-820	39	G	VPS16-8100	41	C	VPS28-4600	41	F	WAU12-1000	66					WDU12-600	65		WDU24-300	65	
VPP36-1560	39	G	VPS16-11000	41	C	VPS28-6250	41	F	WAU12-1500	66		WDU6-100	65		WDU12-1200	65		WDU24-500	65	
									WAU12-2000	66		WDU6-200	65		WDU12-1900	65		WDU24-800	65	
VPS10-2500	41	A	VPS20-1250	41	D	VPS36-700	41	G	WAU12-2500	66		WDU6-300	65					WDU24-1200	65	
VPS10-4300	41	A	VPS20-2200	41	D	VPS36-1200	41	G				WDU6-600	65		WDU15-200	65				
VPS10-8000	41	A	VPS20-4000	41	D	VPS36-2200	41	G	WAU16-400	66		WDU6-800	65		WDU15-600	65		WDU75-100	65	
VPS10-13000	41	A	VPS20-6500	41	D	VPS36-3600	41	G	WAU16-500	66		WDU6-1000	65		WDU15-1000	65		WDU75-200	65	
VPS10-17500	41	A	VPS20-8800	41	D	VPS36-4800	41	G	WAU16-1000	66		WDU6-1200	65		WDU15-1700	65		WDU75-300	65	
									WAU16-2400	66								WDU75-800	65	
VPS12-2000	41	B	VPS24-1000	41	E	VPS56-2300	41	H	WAU20-200	66		WDU9-100	65		WDU18-100	65		WDU75-1000	65	

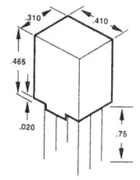
QUALITY POLICY

Triad's Quality Policy is the total satisfaction of our Customer's expectations. This is achieved by our covenant to the following:

- *An unwavering compliance to the requirements of applicable product safety and performance standards (UL,TUV, etc), ISO 9001:2000, drawing specifications and applicable customer requirements.*
- *The on-going pursuit of continually improving the effectiveness of Triad's Quality Management System.*
- *The consistent assessment and fulfillment of our Customer's changing needs.*

ISO 9001:2000
Certificate Registration Number
74 300 2556

Audio Transformers



Triad high reliability audio transformers provide the durability and precision required in today's demanding designs. These transformers are available for a wide variety of applications. The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E. These transformers feature an epoxy molded case, gold plated leads and exceptional operation from 300 Hz to 100 kHz.

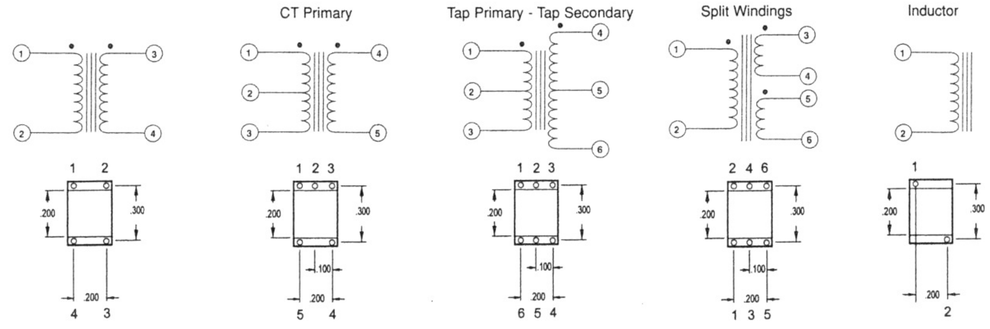
Frequency Response Ranges: 300 Hz to 100 kHz

Section	Type No.	Mil Type No.	Power Level in mW	Matching Impedance Primary	Matching Impedance Secondary	Max. Ma DC Unbalanced in Primary	DC Resistance Primary	DC Resistance Secondary	Overall Turns Ratio	Figure No.
A	**SP-4**	TF5S21ZZ	10	200,000 CT	1,000 CT	0.0	5,300.0	100.0	14.1:1.0	3
B	**SP-5**	TF5S21ZZ	25	50,000 CT	1,000 CT	0.0	3,800.0	75.0	7.1:1.0	3
C	**SP-13**	TF5S21ZZ	40	25,000 CT/20,000 CT	1,000/800 CT	0.5	1,700.0	115.0	5.0:1.0	3
D	**SP-20**	TF5S21ZZ	50	10,000 CT	1,200 CT	1.0	1,050.0	200.0	2.88:1.0	3
	SP-21	TF5S21ZZ	50	10,000 CT	2,000 CT	1.0	1,050.0	330.0	2.24:1.0	3
	SP-22	TF5S21ZZ	50	10,000	2,000 CT/500§	1.0	1,050.0	146.0/168.0§	4.48:1.0:1.0	4
	SP-29	TF5S21ZZ	50	10,000 CT	500 CT	1.0	1,050.0	80.0	4:47:1.0	3
	SP-33	TF5S21ZZ	50	1,000	50	3.0	145.0	8.0	4.4:1.0	1
	SP-42	TF5S21ZZ	50	150 CT	12	10.0	18.0	2.7	3.54:1.0	2
	SP-48	TF5S21ZZ	50	7,500 CT	12	1.0	796.0	2.9	25.0:1.0	2
	SP-49	TF5S21ZZ	50	300 CT	600	7.0	41.0	98.0	1.0:1.42	2
	SP-50	TF5S21ZZ	50	500 CT	600	3.0	67.0	98.0	1.0:1.1	2
	SP-51	TF5S21ZZ	50	900 CT	600	4.0	104.0	96.0	1.22:1.0	2
	SP-52	TF5S21ZZ	50	1,500 CT	600	3.0	168.0	92.0	1.58:1.0	2
	SP-66	TF5S21ZZ	50	10,000 CT	10,000 CT	1.0	1,000.0	1,300.0	1.0:1.0	3
	SP-67	TF5S21ZZ	50	600 CT	600 CT	3.0	72.0	92.0	1.0:1.0	3
	SP-68	TF5S21ZZ	50	10,000	10,000 CT/2,500§	1.0	1,000.0	565.0/650.0§	2.1:1.0	4
	SP-69	TF5S21ZZ	50	600	600 CT/150§	3.0	72.0	40.0/45.0§	2.0:1.0:1.0	4
	SP-70	TF5S21ZZ	50	600	600	3.0	72.0	92.0	1.0:1.0	1
E	**SP-128** **SP-310**	TF5S21ZZ Shield Only	•	0.1H	•	5.0	15.0	•	•	5

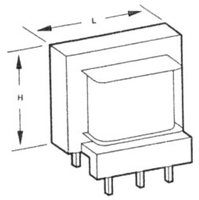
CT = Center Tap § Split secondary

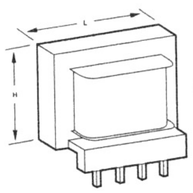
Technical Notes

1. Plug-in terminals are precision spaced to provide fixed mounting centers.
2. Red Spec transformers are hi-pot tested at 1,000 VRMS.
3. 150 VDC working voltage.
4. Red Spec transformers feature small footprint base dimensions of .310 by .410 inch.
5. Pin diameter = .020 inch.



Audio Transformers





Triad produces a wide assortment of audio transformers for use in printed circuit designs. These transformers fill a broad application spectrum in the audio industry. Triad audio printed circuit transformers are used in line matching, telephone coupling, pulse trigger, interstage, output, isolation and input applications.

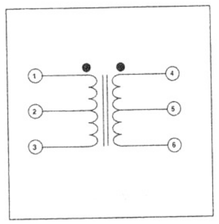
Frequency Response Ranges: 200 - 15,000 Hz
Impedance Matching: 10% over frequency range

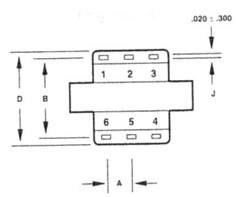
Section	Type No.	Output mW	Primary Impedance	Secondary Impedance	Figure	Pri. DC Unbalance	Dimensions H	D	L	A	B	C	J	Wt. Oz.
A	TY-141P	100	10,000 CT	10,000 CT	A	4 Ma	5/8	19/32	13/16	5/16	27/64	5/16	0.042	.51
	TY-142P	100	10,000 CT	2,000 CT	A	4 Ma	5/8	19/32	13/16	5/16	27/64	5/16	0.042	.51
	TY-144P	100	15,000 CT	15,000 CT	A	4 Ma	5/8	19/32	13/16	5/16	27/64	5/16	0.042	.51
	TY-145P	100	600 CT	600 CT	A	15 Ma	5/8	19/32	13/16	5/16	27/64	5/16	0.042	.51
	TY-146P	1 Watt	600 CT/150§	600 CT/150§	B	•	1 1/8	1 1/8	1 3/8	13/64	1 1/32	5/16	0.042	3.0

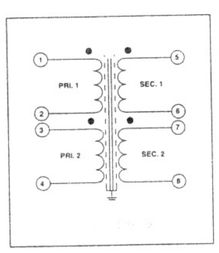
§ Split winding CT = Center Tap

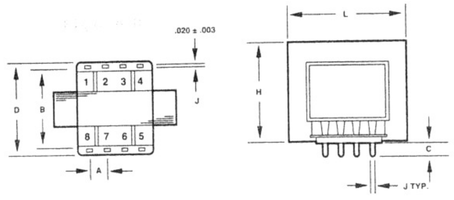
Technical Notes

1. Plug-in terminals are spaced to provide fixed mounting centers.

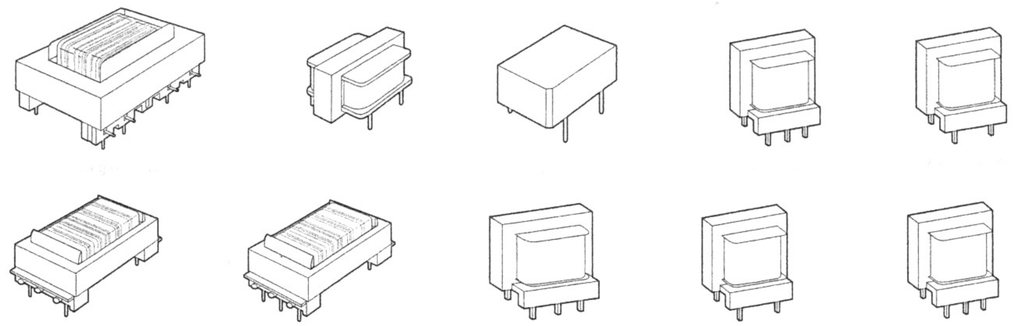








Audio Transformers



Triad telecommunications transformers are designed to meet the requirements for access over leased private lines or through the dial-up switched telephone network. The TY series transformers are used for a variety of applications including impedance matching, isolation, repeat coil, line balancing, bridging, and hybrid circuits.

Designed to meet FCC Part 68
Longitudinal Balance: (FCC 68.310) - 60 dB min. 200 - 1,000 Hz
45 dB min. 1,000 - 4,000 Hz
Dielectric Strength: (FCC 68.304) - 1,500 V
Power Level: -45 dBm to +7 dBm
Frequency Range: Data / Voice = 300 to 3,500 Hz
Data = 800 to 3,500 Hz

Section	Type No.	Impedance Ohms Pri.	Sec.	Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Typ. Freq. Response (dB)	Schematic	Figure
A	TY-305P	600	600	100	1.5	10	±.5	1	A
B	TY-306P	600 Split	600	75	1.5	10	±.5	2	A
C	TY-307P	600	600	0	1.0	26	±.5	3	B
D	TY-310P	600	600	0	1.0	26	±.5	3	C
E	TY-311P	600	600	0	1.0	26	±.5	3	E
F	TY-304P	600 CT	600 CT	0	1.0	26	±.5	4	D
G	TY-301P	600	900	0	1.0	26	±.5	5	E
H	TY-303P	4000	600	0	1.0	26	±.5	6	E

CT = Center Tap

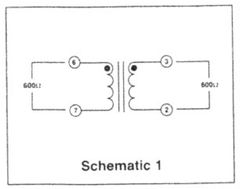
Section	Type No.	Impedance (Ohms) Pri.	Sec.	Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Typ. Freq. Response (dB)	Schematic	Figure
I	TY-400P	600	600	90	1.75	15	±.5	3	I
J	TY-401P	600 CT	600 CT	90	1.75	15	±.5	4	J
K	TY-402P	600	600	90	1.75	13	±.5	7	F
L	TY-403P	600	600 Split	90	1.75	13	±.5	8	G

CT = Center Tap

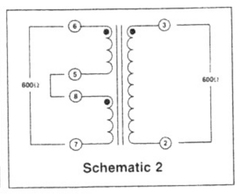
Section	Type No.	Impedance (Ohms) Pri.	Sec.	Max. DC Current (mA)	Typ. Insertion Loss (dB)	Typ. Return Loss (dB)	Trans-Hybrid Loss (dB)	Schematic	Figure
M	TY-300P	600 (4W)	600/600	0	.80	30	50	9	D
N	TY-302P	600 (4W)	600/600	0	.65	32	55	9	H

Technical Notes

Primary connections shown on left side of schematics.



Schematic 1



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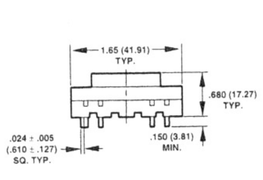

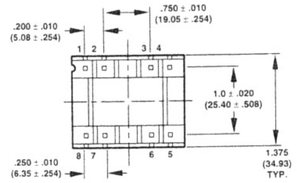

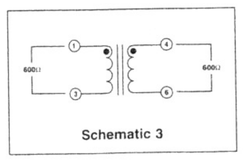

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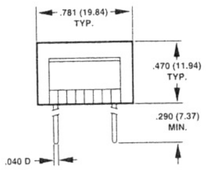

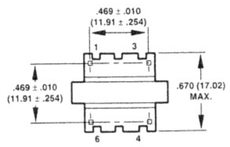

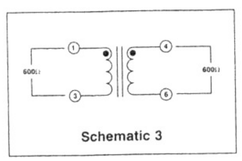

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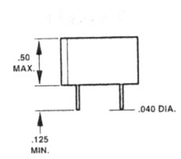

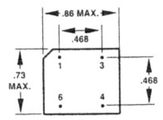

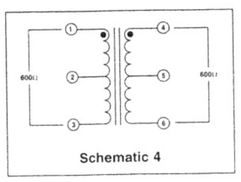

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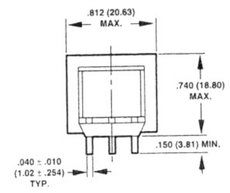

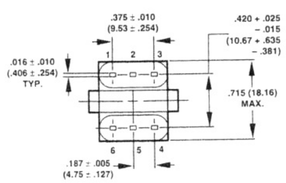

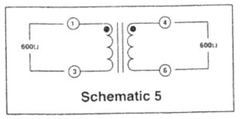

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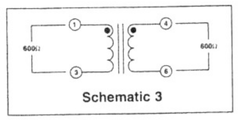

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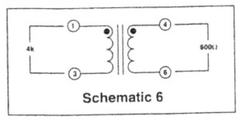

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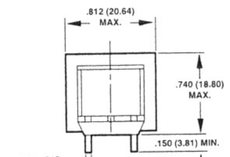

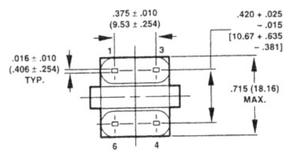

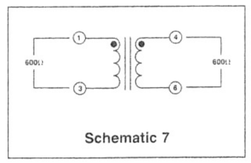

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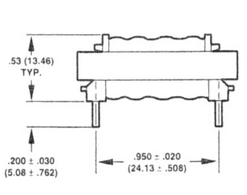

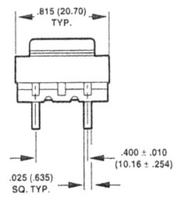

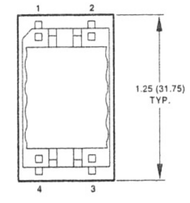

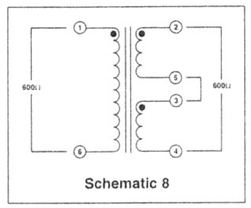

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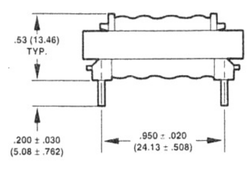

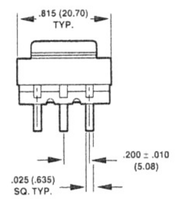

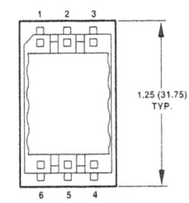

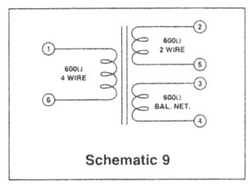

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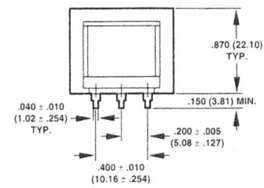

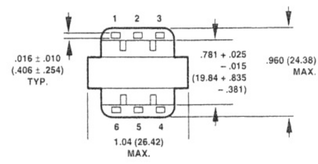

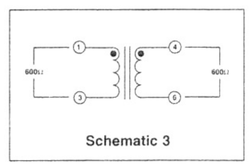

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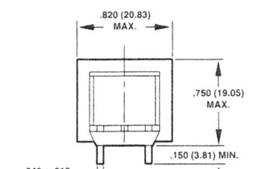

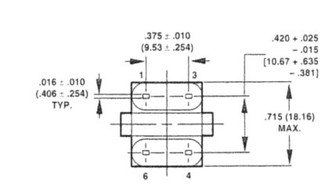

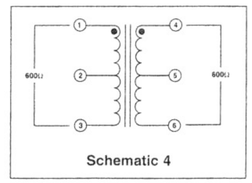

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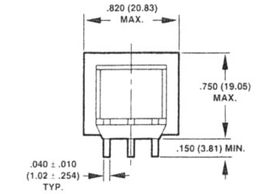
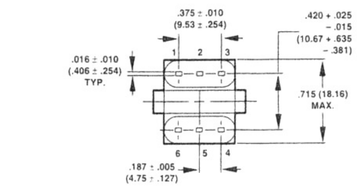
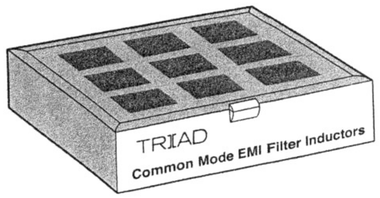




Sample Kits



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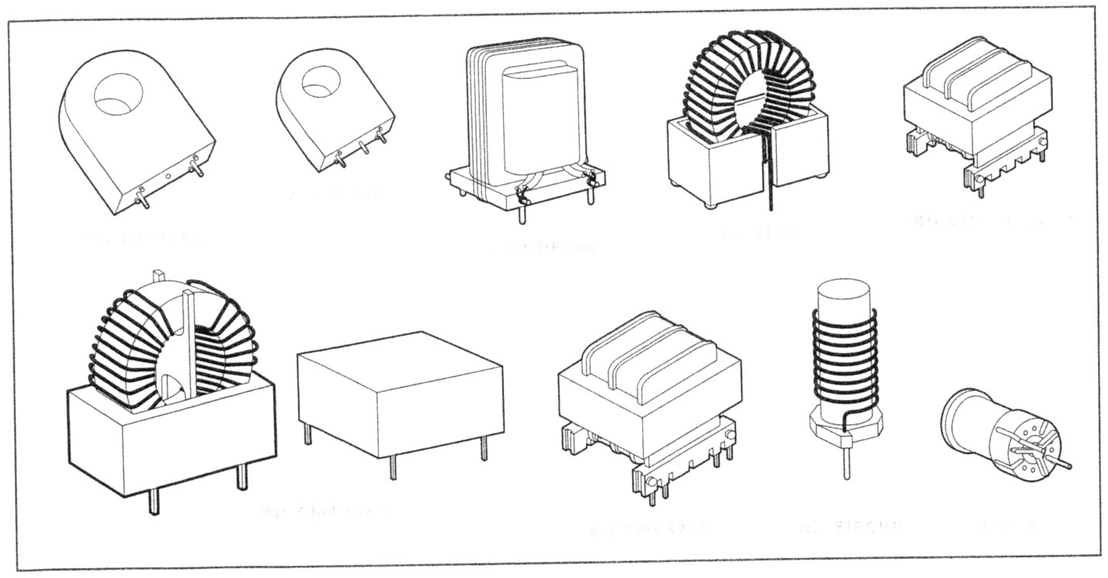
These kits contain representative samples of all our high frequency inductors and transformers organized by product type. The kits include all values, packaging styles and sizes available as standard products within that product series. They are useful for a variety of developmental needs including circuit simulation, circuit testing, prototyping and agency evaluation. All items carry appropriate agency approvals and meet specifications listed in the catalog section referring to the product (see page notation accompanying the kit for individual product specifications). The kits are housed in an easy to see, easy to store clear polycarbonate box with a convenient snap closing hinged lid. Call your Triad representative for details.



Kit CST206K Contains	Kit CST306K Contains	Kit GDE25K Contains	Kit FITK Contains		Kit CME2425K Contains	Kit CMT908K Contains	Kit CME375K Contains	Kit FIRCHK Contains	Kit RCK Contains
CST206-1A	CST306-1A	GDE25-1	FIT44-1	FIT80-1	CME2425-1	CMT908-V1	CME375-1	FIRCH-1	RC-1
CST206-1T	CST306-1T	GDE25-2	FIT44-2	FIT80-2	CME2425-2	CMT908-V2	CME375-2	FIRCH-2	RC-2
CST206-2A	CST306-2A	GDE25-3	FIT44-3	FIT80-3	CME2425-3	CMT908-V3	CME375-3	FIRCH-3	RC-3
CST206-2T	CST306-2T	GDE25-4	FIT44-4	FIT80-4	CME2425-4	CMT908-V4	CME375-4	FIRCH-4	RC-4
CST206-3A	CST306-3A	GDE25-5		FIT80-5	CME2425-5		CME375-5	FIRCH-5	RC-5
CST206-3T	CST306-3T	GDE25-6	FIT50-1	FIT80-6	CME2425-6	CMT908-H1	CME375-6	FIRCH-6	RC-6
			FIT50-2		CME2425-7	CMT908-H2	CME375-7		RC-7
			FIT50-3	FIT106-1	CME2425-8	CMT908-H3	CME375-8		RC-8
			FIT50-4	FIT106-2	CME2425-9	CMT908-H4	CME375-9		RC-9
			FIT50-5	FIT106-3					RC-10
			FIT50-6	FIT106-4					RC-11
			FIT50-7	FIT106-5					
				FIT106-6					
			FIT68-1						
			FIT68-2						
			FIT68-3						
See Page 13	See Page 13	See Page 21	FIT68-4	See Page 19	See Page 15	See Page 15	See Page 15	See Page 20	See Page 18
			FIT68-5						
			FIT68-6						
			FIT68-7						

Current Sense Transformers

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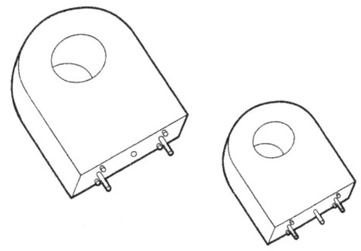
Designed for switching power supply applications, Triad current sense transformers are used to detect the current passing through a conductor.

These transformers are very reliable and operate effectively over the frequency range of 20 kHz-200 kHz. They are constructed of UL rated 130°C materials. Both models are available with a center tap option.



Section/ Figure	Type No.	ET VμSEC REF 20 kHz	Tuurns Count	Min. Ind. mH	DCR Max. Ohms	Pri. Amps
A	**CST206-1A**	2000	100	14.0	.580	110.0 RMS
B	**CST206-1T**	2000	100 CT	14.0	.580	110.0 RMS
A	**CST206-2A**	4000	200	56.0	3.500	80.0 RMS
B	**CST206-2T**	4000	200 CT	56.0	3.500	80.0 RMS
A	**CST206-3A**	6000	300	130.0	12.400	70.0 RMS
B	**CST206-3T**	6000	300 CT	130.0	12.400	70.0 RMS
B	**CST306-1A**	500	50	3.5	.340	35.0 RMS
A	**CST306-1T**	500	50 CT	3.5	.580	35.0 RMS
B	**CST306-2A**	1000	100	14.0	1.550	25.0 RMS
A	**CST306-2T**	1000	100 CT	14.0	1.550	25.0 RMS
B	**CST306-3A**	2000	200	55.0	3.750	25.0 RMS
A	**CST306-3T**	2000	200 CT	55.0	3.750	25.0 RMS

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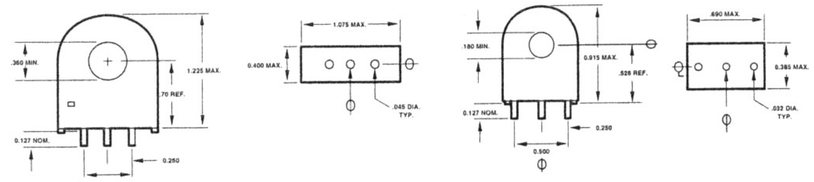
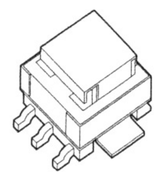
Technical Notes

1. Derate ET product by 32% for 50 kHz, 52% for 100 Hz and 50% for unidirectional operation.
2. Rated primary current renders approximately 40°C temperature rise.
3. CST206 models have maximum recommended terminating resistance of 1 ohm per turn.
4. Primary is inserted through hole in casing.
5. 3 pin or center tapped (CT) models are designed with a T suffix.





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Designed to monitor current at 250 kHz and above. These transformers have a primary current rating of 10 Amps.

Part No.	Turns N1:N2 @ 10kHz	Secondary Inductance μH Min.	Secondary DCR mΩ Max
CSE5-100201	1:20	80	550
CSE5-100301	1:30	180	870
CSE5-100401	1:40	320	1140
CSE5-100501	1:50	500	1500
CSE5-100601	1:60	720	1750
CSE5-100701	1:70	980	4750
CSE5-101001	1:100	2000	5500
CSE5-101251	1:125	3000	8500

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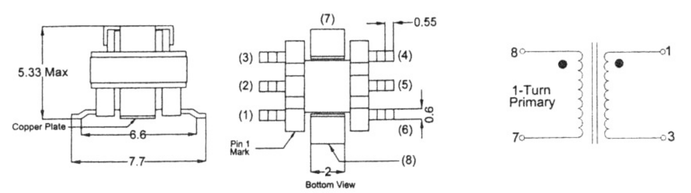
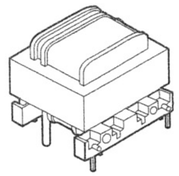
Technical Notes

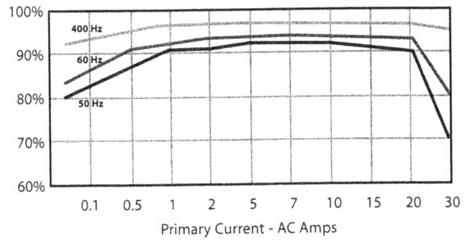
{mm}

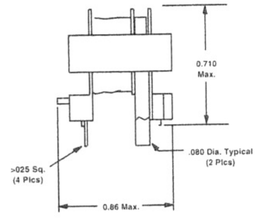


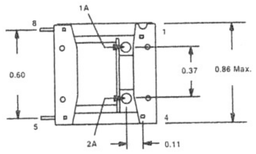
Current Sense Transformers

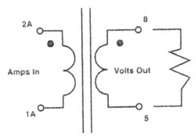


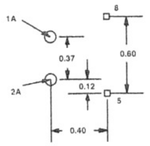
Designed to monitor current in low frequency applications. This Triad part may be used to monitor current from .1 to 30 ampheres at frequencies from 50 Hz to 400 Hz.





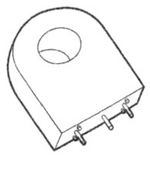






Technical Notes

1. Turns ratio: Primary to sense 1:500
2. Suggested burden resistor: 60 ohms.
3. Typical ouput: 110 mV/Amp.
4. Primary DCR: 250 µOhms maximum.
5. Sense DCR: 21 ohms maximum.
6. Constructed with UL recognized materials (Class B, 130°C).
7. Hi-pot: 2,500 volts wdg-wdg.
8. Potted version available with a dielectric strength of 4,000 volts wdg-wdg.



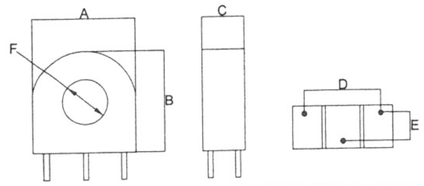
Triad current sense transformers are used to detect the current passing through a conductor. These transformers are very reliable and operate effectively between 50-60 Hz. They are constructed of UL rated 130°C materials.

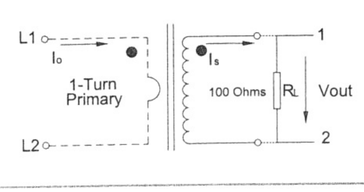
Part No.	Ip Amps	Turns Ratio	Terminating Resistor Ohms	Terminating Resistor Watt	DCR (Ohms) Nominal	Volts/Amp @ rated Lp for various loads 100	500	2K	5K	Net Weight (grams) REF	Case Dimensions – mm A	B	C	D	E	F
CST-1005	5	1000:1	100	0.0025	40.00	0.0958	0.4490	1.3694	1.8402	20.0	23.50	24.80	12.00	15.00	7.50	8.50
CST-1010	10	1000:1	100	0.0100	40.00	0.0969	0.4565	0.9686	1.1912	20.0	23.50	24.80	12.00	15.00	7.50	8.50
CST-1015	15	1000:1	100	0.0230	40.00	0.0971	0.4429	0.7508	0.9439	20.0	23.50	24.80	12.00	15.00	7.50	8.50
CST-1020	20	1000:1	100	0.0400	40.00	0.0977	0.3943	0.6174	0.7662	20.0	23.50	24.80	12.00	12.00	7.50	8.50
CST-1025	25	1000:1	100	0.0630	46.00	0.0976	0.4364	0.7496	0.9664	30.0	30.20	30.20	14.30	20.32	10.16	11.40
CST-1030	30	1000:1	100	0.0900	46.00	0.0977	0.4160	0.6710	0.8750	30.0	30.20	30.20	14.30	20.32	10.16	11.40

Ip: Primary Current

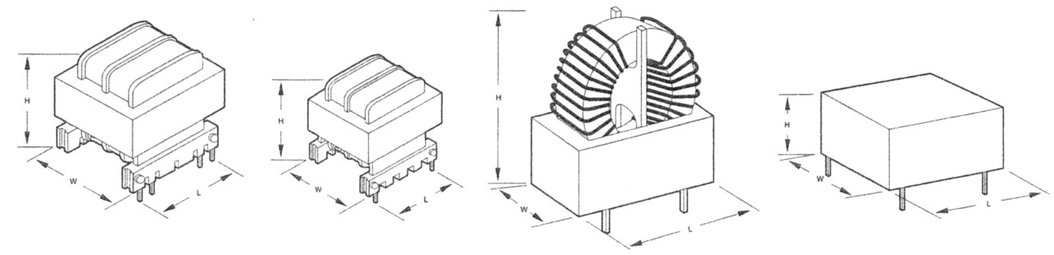
Technical Notes

1. Pin length: 5 ±1mm
2. Pin diameter: 0.8 ±0.1mm
3. Pin 3 normally for mechanical support only





Switchmode/High Frequency



Highly dependable Triad common mode EMI suppression inductors are used in various types of power supplies to eliminate noise common to all lines. These units also provide effective differential mode filtering.

Meeting VDE, IEC, UL, and CSA requirements, they minimize AC line transmitted interference often created by high frequency switching power supplies. Normally placed close to the input source, these compact inductors are constructed with UL rated 130°C materials.

Section	Type No.	Figure	Inductance mH min.	Amps R.M.S.	Max. DC Resistance	Min. Leakage	Dimensions H	W	L	A	B	C	D	Wt. Lbs.
A	CME375-1	A	4.40	5.500	.049 Ohms	45.0 µH	1.18	1.26	1.50	.150	.600	.200	.036 Sq.	0.54
	CME375-2		6.90	4.400	.077 Ohms	70.0 µH								
	CME375-3		10.9	3.500	.122 Ohms	125.0 µH								
	CME375-4		17.8	2.700	.196 Ohms	180.0 µH								
	CME375-5		28.6	2.200	.316 Ohms	300.0 µH								
	CME375-6		43.6	1.750	.489 Ohms	440.0 µH								
	CME375-7		70.3	1.380	.785 Ohms	720.0 µH								
	CME375-8		111.6	1.100	1.240 Ohms	1.1 mH								
	CME375-9		176.1	.087	1.980 Ohms	1.8 mH								
B	CME2425-1	B	1.05	2.50	.050 Ohms	9.0 µH	1.075	1.050	1.050	.125	.800	.610	.029 Sq.	.154
	CME2425-2		2.37	2.00	.080 Ohms	14.0 µH								
	CME2425-3		3.8	1.60	.127 Ohms	25.0 µH								
	CME2425-4		6.0	1.28	.202 Ohms	36.0 µH								
	CME2425-5		9.8	1.00	.319 Ohms	60.0 µH								
	CME2425-6		16.0	0.80	.500 Ohms	90.0 µH								
	CME2425-7		27.7	0.63	.820 Ohms	144.0 µH								
	CME2425-8		40.5	0.50	1.260 Ohms	240.0 µH								
	CME2425-9		67.5	0.40	2.020 Ohms	360.0 µH								

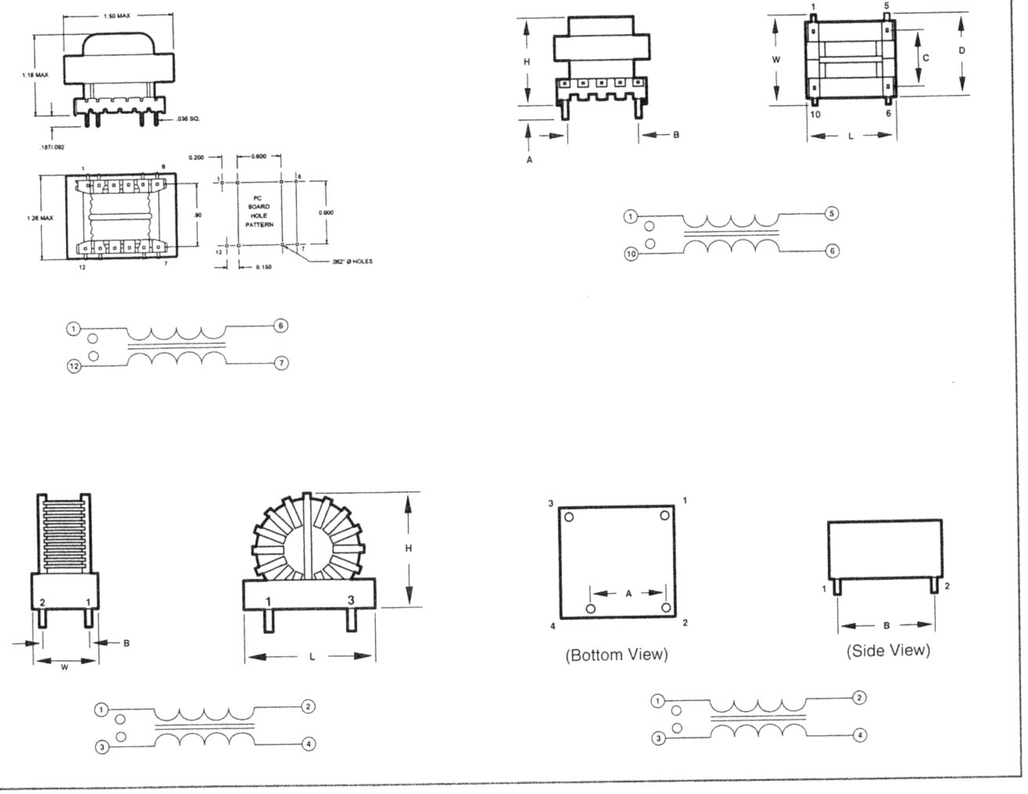
A CME375-KIT is available which includes each one of the components in section A.
A CME2425-KIT is available which includs each one of the components in section B.

Section	Type No.	Figure	Min. Inductance	Amps R.M.S.	Max. DC Resistance	Min. Leakage	Dimensions H	W	L	A	B	Wt. Lbs.
C	CMT908-V1	C	2.00 mH	7.50	.020 Ohms	25.0 µH	1.50	.800	1.45	.9	.6	.08
	CMT908-V2		4.00 mH	5.20	.040 Ohms	45.0 uH						
	CMT908-V3		8.00 mH	3.20	.120 Ohms	90.0 µH						
	CMT908-V4		16.00mH	2.60	.160 Ohms	180.0 µH						
D	CMT908-H1	D	2.00 mH	7.50	.020 Ohms	25.0 µH	.80	1.5	1.5	1.08	1.28	.120
	CMT908-H2		4.00 mH	5.20	.040 Ohms	45.0 uH						
	CMT908-H3		8.00 mH	3.20	.120 Ohms	90.0 µH						
	CMT908-H4		16.00mH	2.60	.160 Ohms	180.0 µH						

A CMT908-KIT is available which includes one of each of the above listed components.

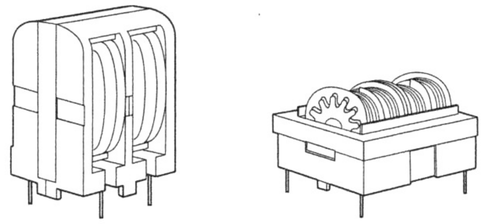
Technical Notes

1. Hi-pot tested at 2,500 VRMS.
2. DC resistance at 20°C ±10%.
3. Inductances are minimum measured at 10 Gauss.
4. Current ratings for approximately 40°C temperature rise.



Triad Magnetics is in the business to provide our customers with the best solutions for their magnetics needs.

Switchmode/High Frequency



Common-mode choke coils are useful in a wide range of applications for the prevention of electromagnetic interference (EMI) and radio frequency interference (RFI) from power supply lines and for prevention of malfunctioning of various electronic equipment. Features include low leakage flux, high self-resonant frequency, high impedance at applicable frequency and low stray capacitance in section winding.

Rated Voltage: 250 VAC
Temperature Rise: 45°C maximum
Insulation Resistance: 100 M Ω minimum
Operating Temperature Range: -20 to 105°C
Accord with Safety Standard: UL, CSA, IEC
Dielectric Withstanding Voltage: 2,000 VAC

Section	Figure	Part No.	Inductance (mH) Min.	Inductance Difference (µH) Max.	DCR Max. (Ω)	Rated Current (A)	Dimension WxLxH (mm)	Pin Mounting AxB (mm)	Weight Oz.
A	A	UT2024-006	9.00	300	1.40	0.50	23x18.5x23.5	13.0x10.0	.52
	A	UT2024-007	4.50	250	0.75	0.60	23x18.5x23.5	13.0x10.0	.52
	A	UT2024-008	2.50	200	0.40	0.70	23x18.5x23.5	13.0x10.0	.52
	A	UT2024-009	1.10	150	0.25	0.90	23x18.5x23.5	13.0x10.0	.52
	A	UT2024-010	0.45	100	0.13	1.00	23x18.5x23.5	13.0x10.0	.52
B	B	ET2432-018	36.00	400	2.70	0.50	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-019	24.00	350	1.60	0.60	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-020	9.20	300	0.75	0.70	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-021	7.80	250	0.50	0.90	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-022	5.20	200	0.34	1.00	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-023	3.60	150	0.25	1.50	26.5x19.5x31	13.0x10.0	.88
	B	ET2432-024	3.20	100	0.20	2.00	26.5x19.5x31	13.0x10.0	.88
C	B	ET2835-034	120.00	2,500	2.60	0.50	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-035	92.00	2,000	2.00	0.60	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-036	66.00	1,500	1.50	0.70	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-037	36.00	1,000	0.80	0.90	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-038	25.00	500	0.60	1.00	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-039	15.50	350	0.32	1.50	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-040	10.00	200	0.25	2.00	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-041	8.00	150	0.19	2.50	31.5x23.5x37	13.0x10.0	1.40
	B	ET2835-042	5.00	100	0.10	3.00	31.5x23.5x37	13.0x10.0	1.40
D	B	ET3542-051	33.00	1,000	0.50	1.50	38x26x45	21.0x15.0	2.60
	B	ET3542-052	22.00	700	0.40	1.80	38x26x45	21.0x15.0	2.60
	B	ET3542-053	18.00	500	0.30	2.00	38x26x45	21.0x15.0	2.60
	B	ET3542-054	12.00	350	0.20	2.50	38x26x45	21.0x15.0	2.60
	B	ET3542-055	10.00	300	0.15	2.70	38x26x45	21.0x15.0	2.60
	B	ET3542-056	8.10	250	0.12	3.00	38x26x45	21.0x15.0	2.60
	B	ET3542-057	6.00	200	0.10	3.50	38x26x45	21.0x15.0	2.60
	B	ET3542-058	4.70	150	0.08	4.00	38x26x45	21.0x15.0	2.60

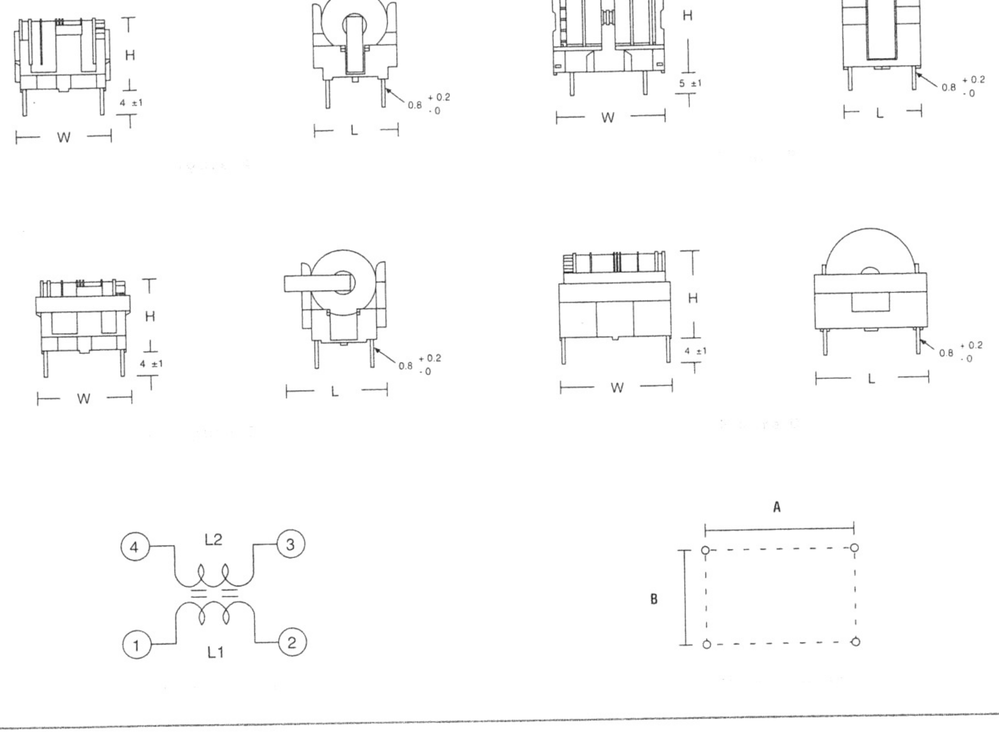
:: Horizontal Configuration

Section	Figure	Part No.	Inductance (mH) Min.	Inductance Difference (uH) Max.	DCR Max. (Ω)	Rated Current (A)	Dimension WxLxH (mm)	Pin Mounting AxB (mm)	Weight Oz.
A	C	UT2020-001	9.00	300	1.40	0.50	24.5x23x20	13.0x10.0	.52
	C	UT2020-002	4.50	250	0.75	0.60	24.5x23x20	13.0x10.0	.52
	C	UT2020-003	2.50	200	0.40	0.70	24.5x23x20	13.0x10.0	.52
	C	UT2020-004	1.10	150	0.25	0.90	24.5x23x20	13.0x10.0	.52
	C	UT2020-005	0.45	100	0.13	1.00	24.5x23x20	13.0x10.0	.52
B	D	ET2424-011	36.00	400	2.70	0.50	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-012	24.00	350	1.60	0.60	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-013	9.20	300	0.75	0.70	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-014	7.80	250	0.50	0.90	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-015	5.20	200	0.34	1.00	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-016	3.60	150	0.25	1.50	26.5x26.5x23	21.0x15.0	.88
	D	ET2424-017	3.20	100	0.20	2.00	26.5x26.5x23	21.0x15.0	.88
C	D	ET2825-025	120.00	2,500	2.60	0.50	30x30x25	24.0x20.0	1.40
	D	ET2825-026	92.00	2,000	2.00	0.60	30x30x25	24.0x20.0	1.40
	D	ET2825-027	66.00	1,500	1.50	0.70	30x30x25	24.0x20.0	1.40
	D	ET2825-028	36.00	1,000	0.80	0.90	30x30x25	24.0x20.0	1.40
	D	ET2825-029	25.00	500	0.60	1.00	30x30x25	24.0x20.0	1.40
	D	ET2825-030	15.50	350	0.32	1.50	30x30x25	24.0x20.0	1.40
	D	ET2825-031	10.00	200	0.25	2.00	30x30x25	24.0x20.0	1.40
	D	ET2825-032	8.00	150	0.19	2.50	30x30x25	24.0x20.0	1.40
	D	ET2825-033	5.00	1.00	0.10	3.00	30x30x25	24.0x20.0	1.40

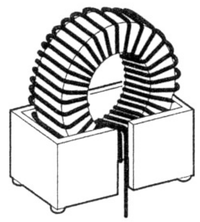
:: Surface Mount

Technical Notes

1. The inductance difference measures between the coil L1 and L2.



Switchmode/High Frequency



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Triad toroidal inductors are specifically designed to minimize transients. These devices store energy, and therefore, condition the output signal by leveling out the current waveform providing a more stable current supply. Generally used in high frequency circuits, our standardized design provides an economical solution in differential mode applications or as an output inductor.

::

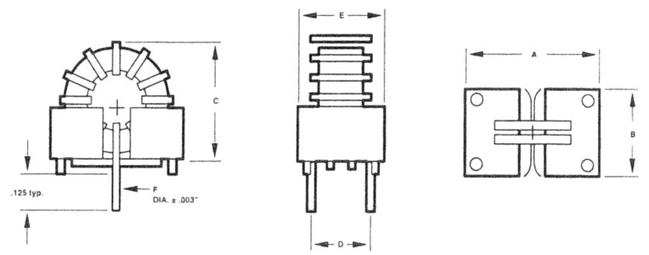
Section	Type No.	Min. Inductance (µH) No Bias	Min. Inductance (µH) At Bias	Rated DCAmps	Max. DCR (mOhm)	Dimensions A	B	C	D	E	F	Wt. Lbs.
A	FIT44-1	18.85	12.72	2.8	44.8	0.625	0.350	0.700	0.250	0.350	0.020	.008
	FIT44-2	14.75	9.82	3.4	30.7						0.022	
	FIT44-3	12.30	7.75	4.0	23.4						0.025	
	FIT44-4	8.06	5.22	4.8	15.9						0.028	
B	FIT50-1	47.40	29.00	2.8	78.9	0.700	0.475	0.750	0.300	0.474	0.020	.012
	FIT50-2	35.48	23.77	3.4	57.8						0.022	
	FIT50-3	27.16	16.13	4.0	40.1						0.025	
	FIT50-4	21.65	12.27	4.8	29.2						0.028	
	FIT50-5	16.76	9.50	5.7	20.0						0.032	
	FIT50-6	12.50	6.75	6.8	14.0						0.036	
	FIT50-7	8.86	4.80	8.1	11.0						0.040	
C	FIT68-1	89.50	57.99	2.8	108.0	0.875	0.475	0.950	0.300	0.474	0.020	.026
	FIT68-2	71.10	41.59	3.4	86.1						0.023	
	FIT68-3	54.81	33.05	4.0	59.9						0.026	
	FIT68-4	43.30	26.63	4.8	42.4						0.028	
	FIT68-5	33.15	18.79	5.7	28.8						0.032	
	FIT68-6	24.31	13.56	6.8	20.2						0.036	
	FIT68-7	18.64	10.23	8.1	14.8						0.040	
D	FIT80-1	128.00	74.04	4.0	95.2	0.975	0.625	1.100	0.450	0.624	0.026	.045
	FIT80-2	107.50	58.05	4.8	67.9						0.029	
	FIT80-3	80.75	42.00	5.7	44.8						0.032	
	FIT80-4	65.04	31.60	6.8	32.8						0.036	
	FIT80-5	47.70	22.79	8.1	22.5						0.040	
	FIT80-6	38.07	18.11	9.7	17.0						0.045	
E	FIT106-1	253.00	153.00	4.0	139.0	1.300	0.725	1.400	0.500	0.724	0.026	.090
	FIT106-2	197.00	113.00	4.8	106.0						0.029	
	FIT106-3	154.00	84.00	5.7	74.0						0.032	
	FIT106-4	116.00	61.90	6.8	48.5						0.036	
	FIT106-5	93.00	48.00	8.1	39.1						0.040	
	FIT106-6	70.05	35.30	9.7	24.0						0.045	

A FIT-KIT is available which includes one of each of the above listed components.

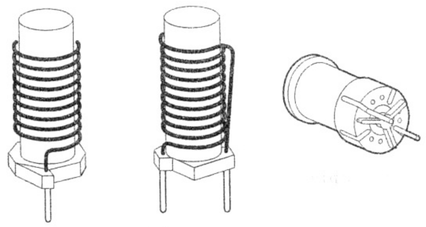
::

Technical Notes

1. Nominal inductance values are typically 10% higher than minimal rating.
2. Biased inductance measured at rated DC amps.
3. Operation at rated current yields approximately 40°C temperature rise over 20°C ambient.



Switchmode/High Frequency



Triad high current rod core inductors provide cost effective energy storage. By conditioning the output signal, the inductor smoothes out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.

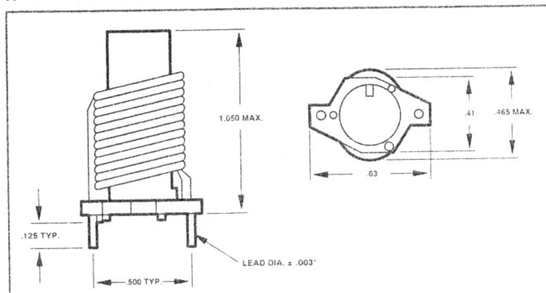
Operating frequency: 20KHz - 200KHz

Section	Type No.	Color Code	Figure	±15% Inductance µH	DC Rated Current	Max. DC Resistance (mOhms)	Lead Diameter	Wt. Lbs.
A	FIRCH-1	Red Dot	A	2.54	11.60A	5.50	.050"	.03
	FIRCH-2	Yellow Dot		3.05	9.70A	7.30	.045"	
	FIRCH-3	Orange Dot		3.60	8.10A	9.95	.040"	
	FIRCH-4	Green Dot		5.00	6.80A	14.10	.036"	
	FIRCH-5	Black Dot		5.90	5.70A	18.50	.032"	
	FIRCH-6	Brown Dot		7.22	4.80A	26.10	.028"	

A FIRCH-KIT is available which includes one of each of the above listed components.

Section	Type No.	Figure	10% Inductance	DC Rated Current	±15% DC Resistance Ohms	Dimensions H	L	A	B	Wt. Oz.
B	RC-1	B	5.6 mH	.250A	6.100	.93	.600	.150	.375	.03
	RC-2		3.9 mH	.320A	3.900					
	RC-3		2.5 mH	.400A	2.450					
	RC-4		1.5 mH	.500A	1.530					
	RC-5		915.0 µH	.625A	1.000					
	RC-6		560.0 µH	.800A	.600					
	RC-7		450.0 µH	1.000A	.420					
	RC-8		250.0 µH	1.250A	.210					
	RC-9		200.0 µH	1.600A	.180					
	RC-10		100.0 µH	2.000A	.098					
	RC-11		75.0 µH	2.500A	.070					

A RC-KIT is available which includes one of each of the above listed components.



Technical Notes

Figure A

1. Rated current 40°C temperature rise.

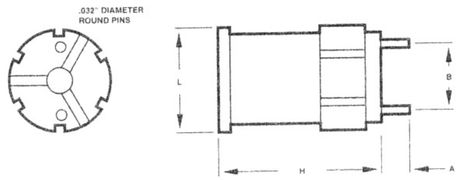
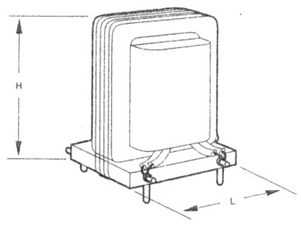


Figure B

1. Rated current 10 amps per pin maximum.
2. Rated current renders approximately 40°C temperature rise.

Switchmode/High Frequency



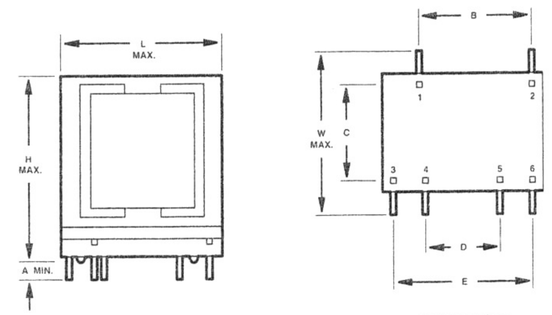
Triad gate drive transformers are used universally in all high frequency switching topologies to isolate the control circuitry from the line-connected switches. The windings are interleaved for the lowest possible practical leakage inductance. Turn ratios of 1:1 and 1:1.5 optimize coupling and enhance performance. Available with single or dual secondaries, these transformers constructed of UL rated 130°C materials are easily standardized at operating frequencies 200 kHz and beyond.

Section	Type No.	Max. DCR 1-2	Max. DCR Gate	Min. ET Product	Max. Leakage	Min. Inductance	Turns Ratio	Dimensions H	W	L	A	B	C	D	E	Wt. Oz.
A	GDE25-1	.350 Ohms	.350 Ohms	540 VµSec	2.5 µH	.680 mH	1:1	1.20	1.04	1.10	.150	.700	.600	.450	.850	.045
	GDE25-2	.350 Ohms	.650 Ohms	540 VµSec	2.5 µH	.680 mH	1:1:1									
	GDE25-3	.875 Ohms	.350 Ohms	840 VµSec	3.5 µH	1.50 mH	1:5:1									
	GDE25-4	.875 Ohms	.650 Ohms	840 VµSec	3.5 µH	1.50 mH	1.5:1:1									
	GDE25-5	.350 Ohms	.875 Ohms	540 VµSec	3.5 µH	.680 mH	1:1.5									
	GDE25-6	.350 Ohms	1.75 Ohms	540 VµSec	3.5 µH	.680 mH	1:1.5:1.5									

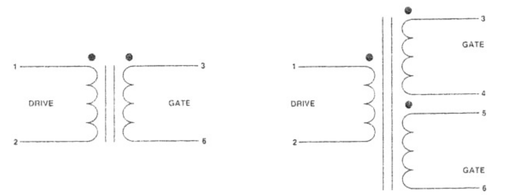
A GDE25 KIT is available which includes one of each of the above listed components.

Technical Notes

1. Drive to gate winding hi-pot tested at 3,750 VRMS.
2. Derate ET product by 32% for 50 kHz, 50% for 100 kHz and 50% for unidirectional operation.
3. Operation at rated current per winding renders approximately 40°C temperature rise.



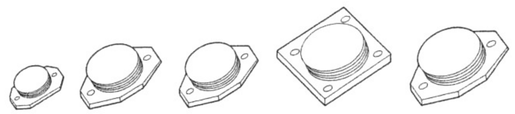
bottom view



www.TriadMagnetics.com 22520 B Temescal Canyon Road, Corona, CA 92883 Phone 951-277-0757 FAX 951-277-2757

SMD Power Inductor Selection Guide

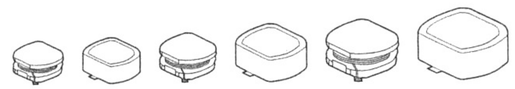
Model	Size (mm, max)	Inductance	Current Rating
AX97-10XXX	7.50 x 4.78 x 3.23	1.0 - 470µH	2.9 - 0.12A
AX97-20XXX	13.46 x 9.40 x 3.50	10 - 1000µH	2.0 - 0.05A
AX97-30XXX	13.46 x 9.40 x 5.90	1.0 - 1000µH	8.50 - 0.30A
AX97-40XXX	16.10 x 15.80 x 7.21	3.3 –1000µH	9.80 - 0.65A
AX97-50XXX	18.95 x 15.24 x 7.21	0.78 - 1000µH	16.0 - 0.56A



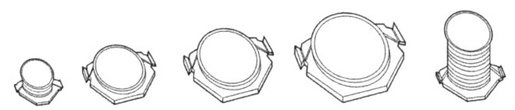
Model	Size (mm, max)	Inductance	Current Rating
AX97-10BXXX	7.30 x 4.78 x 2.92	1.0 - 1000µH	2.9 - 0.10A

Model	Size (mm, max)	Inductance	Current Rating
AX98-50XXX	12.5 x 12.5 x 6.2	1.0 - 1000µH	9.5 - 0.4A

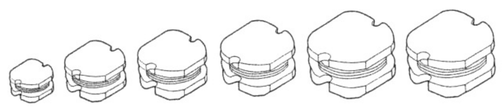
Model	Size (mm, max)	Inductance	Current Rating
AX99-10XXX	5.80 x 5.20 x 4.70	10 - 270uH	1.60 - 0.36A
AX99-20XXX	7.80 x 7.00 x 4.70	10 - 270uH	1.60 - 0.36A
AX99-30XXX	7.80 x 7.00 x 4.70	10 - 470uH	2.40 - 0.35A
AX99-40XXX	10.00 x 9.00 x 5.00	10 - 470uH	2.50 - 0.37A
AX99-50XXX	10.00 x 9.00 x 4.70	10 - 1500uH	3.00 - 0.28A
AX99-60XXX	12.60 x 11.60 x 5.00	10 - 1500uH	2.50 - 0.30A



Model	Size (mm, max)	Inductance	Current Rating
AX00-10XXX	8.89 x 6.09 x 5.50	0.47 - 48.5µH	6.0 - 0.72A
AX00-20XXX	13.46 x 10.03 x 6.60	0.33 - 103µH	16 - 1.2A
AX00-30XXX	19.50 x 13.21 x 7.50	0.47 - 101.4µH	16 - 1.4A
AX00-40XXX	21.97 x 15.24 x 8.00	0.47 - 103µH	19.2 - 2.0A
AX00-50XXX	13.46 x 10.03 x 12.70	0.78 - 100µH	15 - 1.2A



Model	Size (mm, max)	Inductance	Current Rating
AX01-10XXX	4.50 x 4.00 x3.20	1.0 - 33µH	3.80 - 0.56A
AX01-20XXX	5.80 x 5.20 x 4.50	10.0 - 220µH	2.0 - 0.35A
AX01-30XXX	7.80 x 7.00 x 3.50	10.0 - 9000µH	1.44 - 0.05A
AX01-40XXX	7.80 x 7.00 x 5.00	10.0 - 470µH	2.30 - 0.34A
AX01-50XXX	10.00 x 9.00 x 4.00	10.0 - 560µH	2.38 - 0.32A
AX01-60XXX	10.00 x 9.00 x 5.40	10 - 820µH	2.6 - 0.24A



Model	Size (mm, max)	Inductance	Current Rating
AX104RXXX	10.30 x 10.30 x 4.00	1.5 - 330µH	6.5 - 0.7A

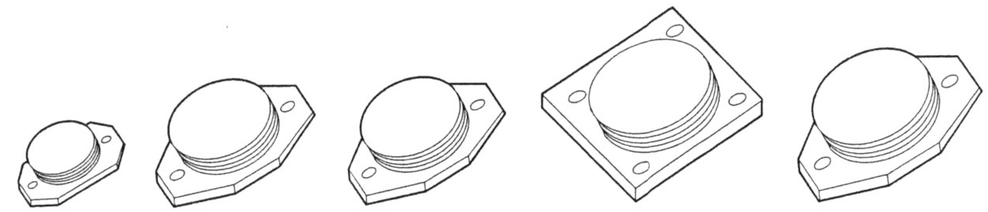
Model	Size (mm, max)	Inductance	Current Rating
AX02-30XXX	13.3 x 15.0 x 6.50	0.5 - 6.4µH	40 - 16A

Model	Size (mm, max)	Inductance	Current Rating
AXFS05-40XXX	10.4 x 10.4 x 4.1	0.22 - 4.7µH	5.5 - 25A

Model	Size (mm, max)	Inductance	Current Rating
AXFS06-50R10	6.5 x 6.5 x 5.0	100nH	46A

SMD Power Inductors

AX97 Series SMD Power Shielded Inductors



:: Description

Slim type
Low resistance
Excellent DC current characteristics

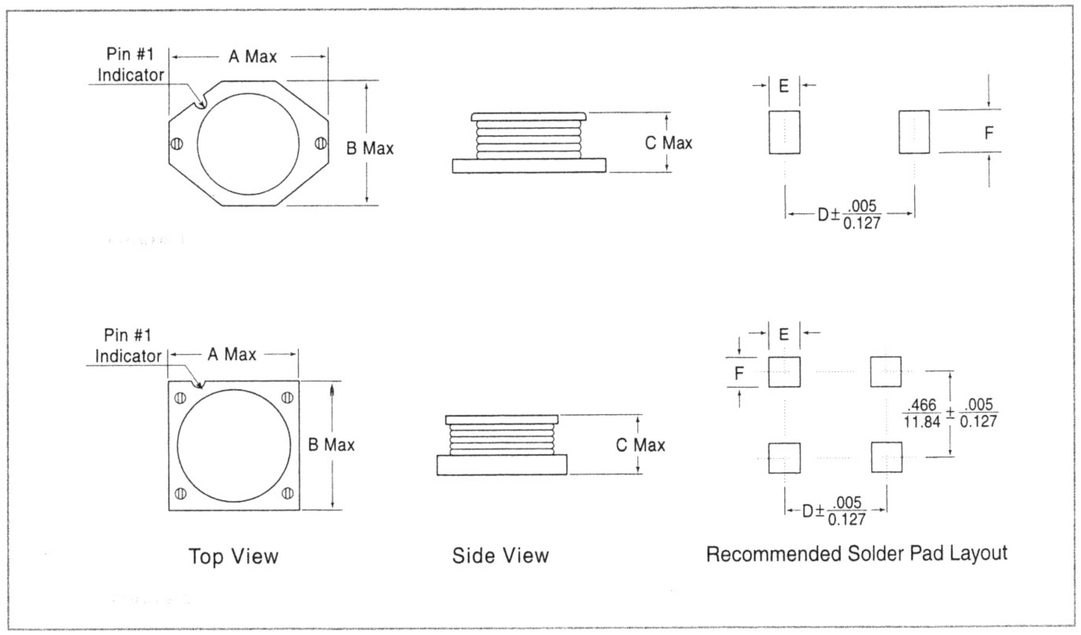
:: Applications

Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

:: AX97 Series SMD Power Shielded Inductors

Part No.	A	B	C	D	E	F	Figure
AX97-10XXX	0.295 7.30	0.188 4.78	0.127 3.23	0.218 5.54	0.059 1.50	0.100 2.54	1
AX97-20XXX	0.530 13.46	0.370 9.40	0.137 3.50	0.404 10.26	0.120 3.05	0.135 3.43	1
AX97-30XXX	0.530 13.46	0.370 9.40	0.232 5.90	0.404 10.26	0.120 3.05	0.135 3.43	1
AX97-40XXX	0.634 16.10	0.622 15.80	0.284 7.21	0.520 13.21	0.157 4.00	0.157 4.00	2
AX97-50XXX	0.746 18.95	0.600 15.24	0.284 7.21	0.595 15.11	0.145 3.68	0.135 3.43	1

:: Outline Dimensions

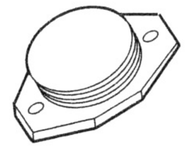


Part Number	Inductance (µH±20%)[1]	DC Resistance @ 25 Ω Max[3]	Rated Current (Amp)[2]	Figure
AX97-101R0	1.0	0.030	2.90	1
AX97-101R5	1.5	0.050	2.80	1
AX97-102R2	2.2	0.060	2.40	1
AX97-103R3	3.3	0.090	2.00	1
AX97-104R7	4.7	0.120	1.50	1
AX97-106R8	6.8	0.170	1.30	1
AX97-10100	10.0	0.220	1.00	1
AX97-10150	15.0	0.300	0.80	1
AX97-10220	22.0	0.430	0.70	1
AX97-10330	33.0	0.690	0.57	1
AX97-10470	47.0	0.920	0.46	1
AX97-10680	68.0	1.390	0.37	1
AX97-10101	100.0	1.980	0.28	1
AX97-10151	150.0	3.080	0.22	1
1X97-10221	220.0	4.470	0.18	1
AX97-10331	330.0	6.900	0.15	1
AX97-10471	470.0	11.550	0.12	1
AX97-20100	10.0	0.070	2.00	1
AX97-20150	15.0	0.090	1.50	1
AX97-20220	22.0	0.150	1.30	1
AX97-20330	33.0	0.210	1.10	1
AX97-20470	47.0	0.310	0.80	1
AX97-20680	68.0	0.420	0.70	1
AX97-20101	100.0	0.580	0.60	1
AX97-20151	150.0	0.890	0.50	1
AX97-20221	220.0	1.300	0.40	1
AX97-20331	330.0	2.000	0.30	1
AX98-20471	470.0	2.500	0.20	1
AX97-20681	680.0	3.500	0.10	1
AX97-20102	1000.0	6.000	0.05	1
AX97-301R0	1.0	0.010	8.50	1
AX97-301R5	1.5	0.010	7.90	1
AX97-302R2	2.2	0.020	7.40	1
AX97-303R3	3.3	0.020	6.60	1
AX97-304R7	4.7	0.020	6.00	1
AX98-306R8	6.8	0.030	5.20	1
AX97-308R2	8.2	0.030	5.00	1
AX97-30100	10.0	0.040	4.60	1
AX97-30150	15.0	0.050	3.70	1
AX97-30220	22.0	0.070	3.10	1
AX97-30330	33.0	0.110	2.50	1
AX97-30470	47.0	0.160	2.00	1
AX97-30680	68.0	0.200	1.80	1
AX97-30820	82.0	0.240	1.58	1

Part Number	Inductance (µH±20%)[1]	DC Resistance @ 25 Ω Max[3]	Rated Current (Amp)[2]	Figure
AX97-30101	100.00	0.3000	1.50	1
AX97-30151	150.00	0.4400	1.20	1
AX97-30221	220.00	0.6400	1.00	1
AX97-30331	330.00	1.0000	0.80	1
AX97-30471	470.00	1.5000	0.50	1
AX97-30681	680.00	2.2000	0.40	1
AX97-30102	1000.00	3.1500	0.30	1
AX97-403R3	3.30	0.0100	9.80	2
AX97-404R7	4.70	0.0100	9.30	2
AX97-406R8	6.80	0.0200	7.70	2
AX97-408R2	8.20	0.0200	7.00	2
AX97-40100	10.00	0.0200	6.50	2
AX97-40150	15.00	0.0300	5.30	2
AX97-40220	22.00	0.0400	4.40	2
AX97-40330	33.00	0.0600	3.50	2
AX97-40470	47.00	0.0700	3.00	2
AX97-40680	68.00	0.1100	2.50	2
AX97-40820	82.00	0.1200	2.20	2
AX97-40101	100.00	0.1500	2.00	2
AX97-40151	150.00	0.2200	1.70	2
AX97-40221	220.00	0.3300	1.30	2
AX97-40331	330.00	0.4500	1.10	2
AX97-40471	470.00	0.7000	0.93	2
AX97-40681	680.00	1.0000	0.78	2
AX97-40102	1000.00	1.4500	0.65	2
AX97-50R78	0.78	0.0030	16.00	1
AX97-501R3	1.30	0.0043	14.00	1
AX97-502R0	2.00	0.0050	12.00	1
AX97-502R6	2.60	0.0060	10.00	1
AX97-503R3	3.30	0.0080	9.80	1
AX97-505R6	5.60	0.0100	7.50	1
AX97-50100	10.00	0.0230	6.00	1
AX97-50150	15.00	0.0350	4.50	1
AX97-50220	22.00	0.0450	4.00	1
AX97-50330	33.00	0.0750	3.00	1
AX97-50470	47.00	0.0960	2.60	1
AX97-50680	68.00	0.1400	2.30	1
AX97-50101	100.00	0.1900	1.70	1
AX97-50151	150.00	0.2900	1.50	1
AX97-50221	220.00	0.4100	1.20	1
AX97-50331	330.00	0.5400	1.00	1
AX97-50471	470.00	0.8000	0.83	1
AX97-50681	680.00	1.1500	0.72	1
AX97-50102	1000.00	1.8000	0.56	1

Notes: 1. Inductance measured at 100.0KHz, 0.1Vrms, without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.
3. For AX97-40 Series, resistance measured with both windings conducted in parallel.

SMD Power Inductors



- Slim type
- Height: 2.92mm maximum
- Low resistance
- Excellent DC current characteristics

- Laptop and notebook computers and PDAs
- DC/DC converters
- Portable communication equipment
- Inductor for general purpose use

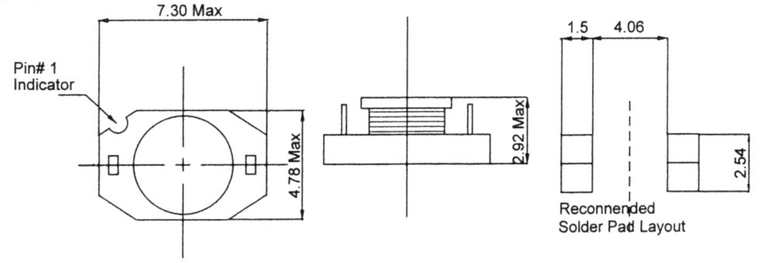
Part Number	Inductance (µH ±20%)	DC Resistance Ω Max	Rated Current Amp[2]
AX97B-101R0	1.0	0.05	2.90
AX97B-101R5	1.5	0.05	2.60
AX97B-102R2	2.2	0.07	2.30
AX97B-103R3	3.3	0.08	2.00
AX97B-104R7	4.7	0.09	1.50
AX97B-106R8	6.8	0.13	1.20
AX97B-10100	10.0	0.16	1.10
AX97B-10250	15.0	0.23	0.90
AX97B-10220	22.0	0.37	0.70
AX97B-10330	33.0	0.51	0.58

Part Number	Inductance (µH ±20%)	DC Resistance Ω Max	Rated Current Amp[2]
AX97B-10470	47	0.64	0.50
AX97B-10680	68	0.86	0.40
AX97B-10101	100	1.27	0.31
AX97B-10151	150	2.00	0.27
AX97B-10221	220	3.11	0.22
AX97B-10331	330	3.80	0.18
AX97B-10471	470	5.06	0.16
AX97B-10681	680	9.20	0.14
AX97B-10103	1000	13.80	0.10

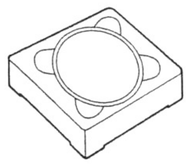
Notes: 1. Inductance measured at 100.0KHz, 0.1V RMS without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

Technical Notes

[mm]



SMD Power Inductors



::

Slim type
Self shielded
Height: 6.20mm maximum
Low resistance
Excellent DC current characteristics

::

Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

::

Part No.	A	B	C	D	E	F	G	H	I
AX98-50XX	0.492 12.50	0.492 12.50	0.244 6.20	0.197 5.00	0.079 2.00	0.299 7.60	0.394 10.00	0.236 6.00	0.118 3.00

::

Part Number	Inductance (μH±20%)[1]	DC Resistance Ω Max	Rated Current (Amp)[2]
AX98-501R0	1.0	0.0083	9.50
AX98-501R8	1.8	0.0087	8.00
AX98-503R3	3.3	0.0131	7.00
AX98-504R5	4.5	0.0154	6.00
AX98-507R0	7.0	0.0214	5.50
AX98-50100	10.0	0.0250	4.00
AX98-50120	12..0	0.0270	3.50
AX98-50150	15.0	0.0300	3.30
AX98-50180	18.0	0.0380	3.00
AX98-50220	22.0	0.0450	2.80
AX98-50270	27.0	0.0550	2.30
AX98-50330	33.0	0.0630	2.10
AX98-50390	39.0	0.0750	2.00
AX98-50470	47.0	0.0850	1.80
AX98-50560	56.0	0.1100	1.70

Part Number	Inductance (μH±20%)[1]	DC Resistance Ω Max	Rated Current (Amp)[2]
AX98-50680	68	0.120	1.50
AX98-50820	82	0.140	1.40
AX98-50101	100	0.165	1.30
AX98-50121	120	0.195	1.10
AX98-50151	150	0.250	1.00
AX98-50181	180	0.290	0.90
AX98-50221	220	0.400	0.80
AX98-50271	270	0.460	0.75
AX98-50331	330	0.510	0.68
AX98-50391	390	0.690	0.65
AX98-50471	470	0.770	0.58
AX98-50561	560	0.880	0.54
AX98-50681	680	1.200	0.48
AX98-50821	820	1.340	0.43
AX98-50102	1000	1.530	0.40

Note: 1. Inductance measured at 1.0KHz without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

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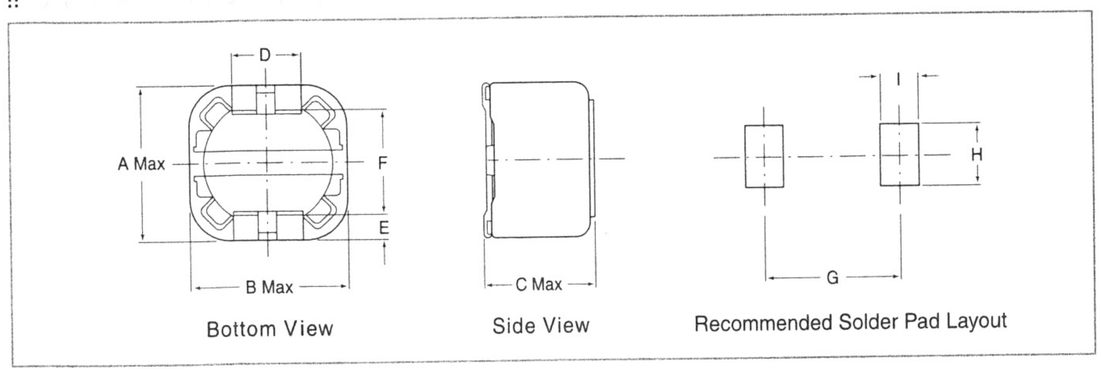
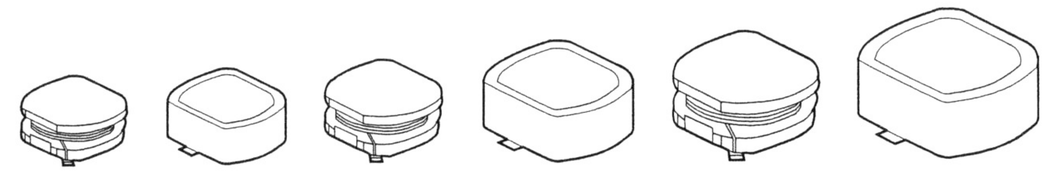


SMD Power Inductors



::

Slim type
Low resistance
Excellent DC current characteristics

::

Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

::

Part No.	A	B	C	D	E	F	G	Figure
AX99-10XXX	0.23 5.80	0.20 5.20	0.19 4.70	0.122 3.10	0.37 9.50	0.12 3.00	0.052 1.31	1
AX99-20XXX	0.31 7.80	0.28 7.00	0.185 4.70	0.165 4.20	0.465 11.80	0.12 3.00	0.059 1.50	2
AX99-30XXX	0.31 7.80	0.28 7.00	0.19 4.70	0.146 3.70	0.433 11.00	0.12 3.00	0.067 1.71	1
AX99-40XXX	0.39 10.00	0.35 9.00	0.197 5.00	0.197 5.00	0.512 13.00	0.12 3.00	0.097 2.00	2
AX99-50XXX	0.39 10.00	0.35 9.00	0.19 4.70	0.307 7.80	0.433 11.00	0.12 3.00	0.059 1.50	3
AX99-60XXX	0.50 12.60	0.46 11.60	0.197 5.00	0.299 7.60	0.62 15.80	0.12 3.00	0.079 2.00	2

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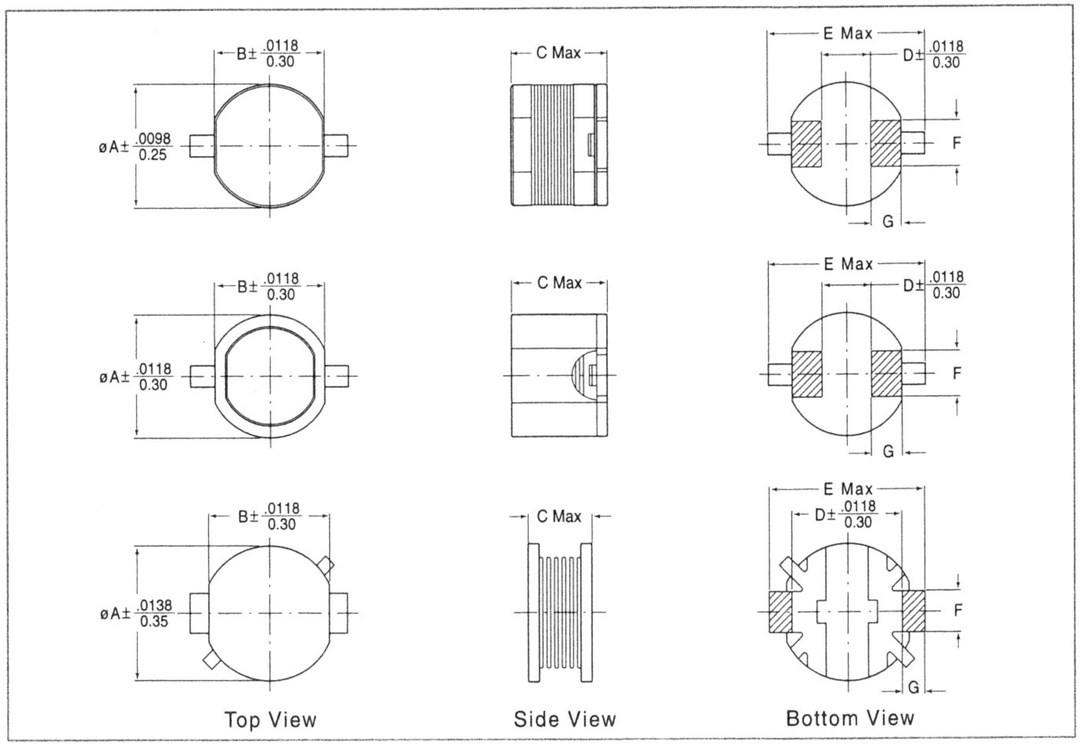
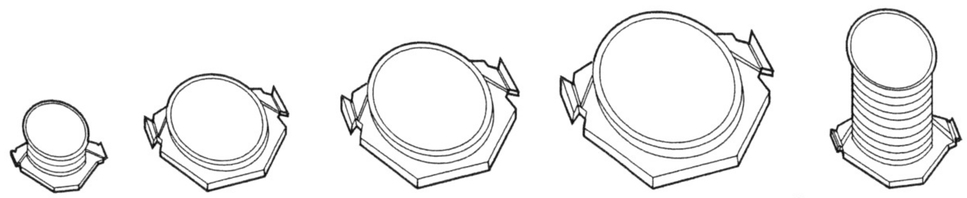


Part Number	Inductance (µH ±20%)[1]	DC Resistance (Ω Max)	Rated Current (Amp)[2]	Figure
AX99-10100	10	0.068	1.60	1
AX99-10120	12	0.080	1.50	1
AX99-10150	15	0.088	1.45	1
AX99-10180	18	0.100	1.40	1
AX99-10220	22	0.130	1.30	1
AX99-10270	27	0.150	1.10	1
AX99-10330	33	0.180	1.00	1
AX99-10470	47	0.250	0.80	1
AX99-10560	56	0.290	0.75	1
AX99-10680	68	0.370	0.70	1
AX99-10820	82	0.420	0.65	1
AX99-10101	100	0.500	0.60	1
AX99-10121	120	0.600	0.55	1
AX99-10151	150	0.720	0.50	1
AX99-10271	270	1.200	0.36	1
AX99-20100	10	0.055	1.70	2
AX99-20120	12	0.064	1.60	2
AX99-20150	15	0.070	1.50	2
AX99-20180	18	0.080	1.40	2
AX99-20220	22	0.100	1.20	2
AX99-20270	27	0.120	1.10	2
AX99-20330	33	0.140	1.02	2
AX99-20470	47	0.190	0.86	2
AX99-20560	56	0.230	0.78	2
AX99-20680	68	0.260	0.73	2
AX99-20820	82	0.310	0.68	2
AX99-20101	100	0.410	0.60	2
AX99-20121	120	0.490	0.56	2
AX99-20151	150	0.660	0.50	2
AX99-20271	270	1.300	0.40	2
AX99-30100	10	0.050	2.40	1
AX99-30120	12	0.060	2.30	1
AX99-30150	15	0.070	2.10	1
AX99-30180	18	0.080	1.90	1
AX99-30220	22	0.100	1.70	1
AX99-30270	27	0.120	1.50	1
AX99-30330	33	0.150	1.30	1
AX99-30470	47	0.190	1.20	1
AX99-30560	56	0.210	1.00	1
AX99-30680	68	0.260	0.93	1
AX99-30820	82	0.310	0.90	1
AX99-30101	100	0.360	0.80	1
AX99-30121	120	0.500	0.75	1
AX99-30151	150	0.630	0.65	1
AX99-30181	180	0.750	0.62	1
AX99-30271	270	1.140	0.55	1
AX99-30331	330	1.350	0.45	1
AX99-30471	470	2.005	0.35	1
AX99-40100	10	0.030	2.50	2
AX99-40120	12	0.035	2.30	2
AX99-40150	15	0.040	2.10	2
AX99-40180	18	0.052	1.90	2
AX99-40220	22	0.058	1.70	2
AX99-40270	27	0.074	1.60	2
AX99-40330	33	0.081	1.40	2
AX99-40470	47	0.120	1.20	2
AX99-40560	56	0.150	1.10	2
AX99-40680	68	0.180	0.97	2
AX99-40820	82	0.200	0.88	2
AX99-40101	100	0.260	0.80	2
AX99-40121	120	0.300	0.73	2
AX99-40151	150	0.360	0.65	2
AX99-40181	180	0.450	0.60	2
AX99-40271	270	0.600	0.49	2
AX99-40331	330	0.750	0.44	2
AX99-40391	390	0.890	0.41	2
AX99-40471	470	1.010	0.37	2
AX99-50100	10	0.045	3.00	3
AX99-50120	12	0.048	2.70	3
AX99-50150	15	0.052	2.50	3
AX99-50180	18	0.062	2.30	3
AX99-50220	22	0.080	2.20	3
AX99-50270	27	0.090	2.10	3
AX99-50330	33	0.103	2.00	3
AX99-50470	47	0.150	1.80	3
AX99-50560	56	0.170	1.50	3
AX99-50680	68	0.200	1.30	3
AX99-50820	82	0.252	1.20	3
AX99-50101	100	0.306	1.10	3
AX99-50121	120	0.350	1.00	3
AX99-50151	150	0.450	0.90	3
AX99-50181	180	0.540	0.80	3
AX99-50221	220	0.660	0.75	3
AX99-50271	270	0.830	0.65	3
AX99-50331	330	0.980	0.60	3
AX99-50391	390	1.100	0.55	3
AX99-50471	470	1.330	0.50	3
AX99-50561	560	1.700	0.46	3
AX99-50681	680	2.100	0.45	3
AX99-50821	820	2.550	0.40	3
AX99-50102	1000	3.150	0.35	3
AX99-50152	1500	4.600	0.28	3
AX99-60100	10	0.039	2.50	2
AX99-60120	12	0.042	2.40	2
AX99-60150	15	0.051	2.30	2
AX99-60180	18	0.054	2.20	2
AX99-60220	22	0.062	2.10	2
AX99-60270	27	0.066	2.00	2
AX99-60330	33	0.073	1.90	2
AX99-60470	47	0.110	1.60	2
AX99-60560	56	0.120	1.40	2
AX99-60680	68	0.140	1.30	2
AX99-60820	82	0.170	1.20	2
AX99-60101	100	0.200	1.10	2
AX99-60121	120	0.250	0.97	2
AX99-60151	150	0.300	0.86	2
AX99-60181	180	0.360	0.84	2
AX99-60221	220	0.430	0.72	2
AX99-60331	330	0.590	0.61	2
AX99-60391	390	0.720	0.58	2
AX99-60471	470	0.810	0.50	2
AX99-60561	560	0.980	0.48	2
AX99-60681	680	1.160	0.43	2
AX99-60821	820	1.420	0.38	2
AX99-60102	1000	1.900	0.35	2
AX99-60152	1500	2.420	0.30	2

Note: 1. Inductance measured at 100KHz 0.1Vrms, without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

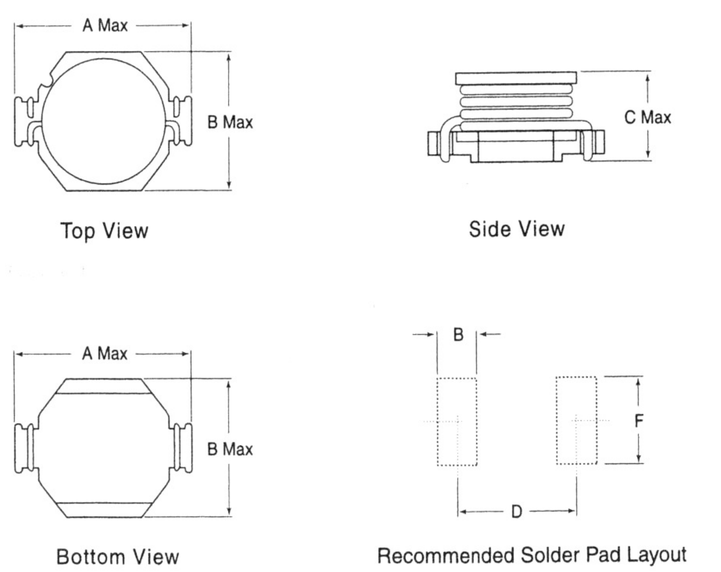
SMD Power Inductors



Slim type
Low resistance
Excellent DC current characteristics

Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

Part No.	A	B	C	D	E	F
AX00-10XXX	0.350 8.89	0.240 6.09	0.217 5.50	0.290 7.37	0.137 3.48	0.225 5.72
AX00-20XXX	0.530 13.46	0.395 10.03	0.260 6.60	0.410 10.41	0.135 3.43	0.295 7.49
AX00-30XXX	0.768 19.50	0.520 13.21	0.295 7.50	0.610 15.50	0.135 3.43	0.370 9.40
AX00-40XXX	0.865 21.97	0.600 15.24	0.315 8.00	0.690 17.53	0.150 3.81	0.370 9.40
AX00-50XXX	0.530 13.46	0.395 10.03	0.500 12.70	0.410 10.41	0.135 3.43	0.295 7.49



:: Specifications

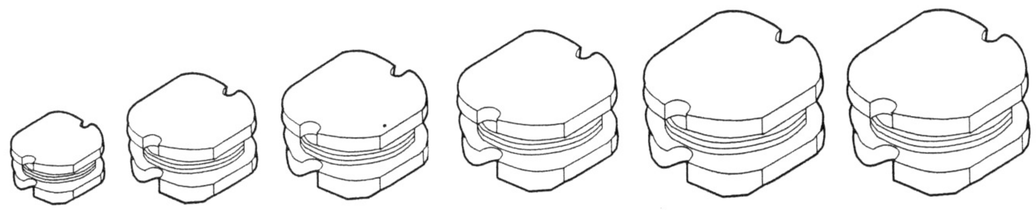
Part Number	Inductance Ldc (µH Typ)	Inductance LO (µH ±20%)[1]	DC Resistance @ 25 mMax	Rated Current (Amp)[2]
AX00-10R47	0.47	0.47	7.9	6.00
AX00-101R0	1.00	1.00	12.5	4.40
AX00-101R5	1.50	1.60	14.5	4.20
AX00-102R2	2.20	2.26	24.1	3.10
AX00-103R3	3.30	3.45	31.8	2.90
AX00-104R7	4.70	4.85	54.7	2.20
AX00-106R8	6.80	6.90	57.1	1.70
AX00-10100	10.00	10.40	81.3	1.50
AX00-10150	15.00	15.30	124.0	1.20
AX00-10220	22.00	23.00	183.0	1.00
AX00-10330	33.00	33.60	265.0	0.82
AX00-10470	47.00	48.50	334.0	0.72
AX00-20R33	0.33	0.33	2.0	16.00
AX00-20R68	0.68	0.70	3.5	12.00
AX00-201R0	1.00	1.10	4.6	10.00
AX00-201R5	1.50	1.50	6.1	9.00
AX00-202R2	2.20	2.27	7.8	7.40
AX00-202R7	2.70	2.90	10.0	6.60
AX00-203R3	3.30	3.30	11.0	5.90
AX00-204R7	4.70	4.80	15.1	4.80
AX00-20100	10.00	10.00	35.0	3.30
AX00-20150	15.00	15.43	45.0	3.10
AX00-20220	22.00	22.50	62.0	2.80
AX00-20330	33.00	33.20	92.0	2.10
AX00-20470	47.00	48.70	139.0	1.70
AX00-20680	68.00	68.20	177.0	1.50
AX00-20101	100.00	103.00	237.0	1.20
AX00-30R47	0.47	0.47	2.1	16.00
AX00-301R0	1.00	1.10	3.8	12.50
AX00-301R5	1.50	1.65	4.9	10.00
AX00-302R2	2.20	2.30	5.1	9.20
AX00-303R3	3.30	3.44	10.0	8.00
AX00-304R7	4.70	5.00	11.4	6.50
AX00-306R8	6.80	6.90	17.8	5.80
AX00-30100	10.00	10.58	22.8	4.30
AX00-30150	15.00	15.50	35.0	3.90

Part Number	Inductance Ldc (µH Typ)	Inductance LO (µH ±20%)[1]	DC Resistance @ 25 mMax	Rated Current (Amp)[2]
AX00-30220	22.00	22.90	49.10	3.1
AX00-30330	33.00	33.90	69.00	2.4
AX00-30470	47.00	48.00	108.20	1.9
AX00-30680	68.00	69.50	156.00	1.6
AX00-30101	100.00	101.40	205.50	1.4
AX00-40R47	0.47	0.47	1.70	19.2
AX00-401R0	1.00	1.00	2.50	17.3
AX00-401R3	1.30	1.30	3.50	15.0
AX00-402R2	2.20	2.20	4.70	12.0
AX00-403R3	3.30	3.30	8.40	10.0
AX00-403R9	3.90	3.90	7.50	9.0
AX00-404R7	4.70	4.75	9.50	8.5
AX00-406R0	6.00	6.00	13.70	7.5
AX00-407R8	7.80	7.80	15.40	7.5
AX00-40100	10.00	10.00	22.00	6.0
AX00-40150	15.00	15.60	29.50	5.5
AX00-40220	22.00	22.60	34.00	4.5
AX00-40330	33.00	34.50	52.00	3.7
AX00-40470	47.00	48.00	71.00	3.1
AX00-40680	68.00	69.20	104.00	2.4
AX00-40101	100.00	103.00	156.0	2.0
AX00-50R78	0.78	0.78	2.60	15.0
AX00-501R0	1.00	1.00	3.10	17.3
AX00-501R5	1.50	1.52	4.00	15.0
AX00-502R2	2.20	2.27	5.60	12.0
AX00-503R3	3.30	3.30	7.00	11.0
AX00-503R9	3.90	4.00	10.0	9.0
AX00-504R7	4.70	4.70	9.50	6.5
AX00-507R5	7.50	7.50	15.00	6.0
AX00-50100	10.00	10.00	40.00	3.5
AX00-50150	15.00	15.00	50.00	3.0
AX00-50220	22.00	22.00	66.00	2.5
AX00-50330	33.00	33.00	80.00	2.0
AX00-50470	47.00	47.00	110.00	1.6
AX00-50680	68.00	68.00	170.00	1.2
AX00-50101	100.00	100.00	220.00	1.2

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

SMD Power Inductors

AX01 Series SMD Power Inductors



:: Features

Slim type
Low resistance
Excellent DC current characteristics

:: Applications

Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

:: AX01 Series SMD Power Inductors

Part No.	A	B	C	D	E	F	G
AX01-10XXX	0.177 4.50	0.158 4.00	0.126 3.20	0.177 4.50	0.205 5.20	0.059 1.50	0.069 1.75
AX01-20XXX	0.228 5.80	0.205 5.20	0.177 4.50	0.228 5.80	0.240 6.10	0.669 1.70	0.085 2.15
AX01-30XXX	0.307 7.80	0.276 7.00	0.140 3.50	0.315 8.00	0.315 8.00	0.079 2.00	0.118 3.00
AX01-40XXX	0.307 7.80	0.276 7.00	0.199 5.00	0.315 8.00	0.315 8.00	0.079 2.00	0.118 3.00
AX01-50XXX	0.394 10.00	0.354 9.00	0.158 4.00	0.394 10.00	0.394 10.00	0.098 2.50	0.148 3.75
AX01-60XXX	0.394 10.00	0.354 9.00	0.213 5.40	0.394 10.00	0.394 10.00	0.098 2.50	0.148 3.75

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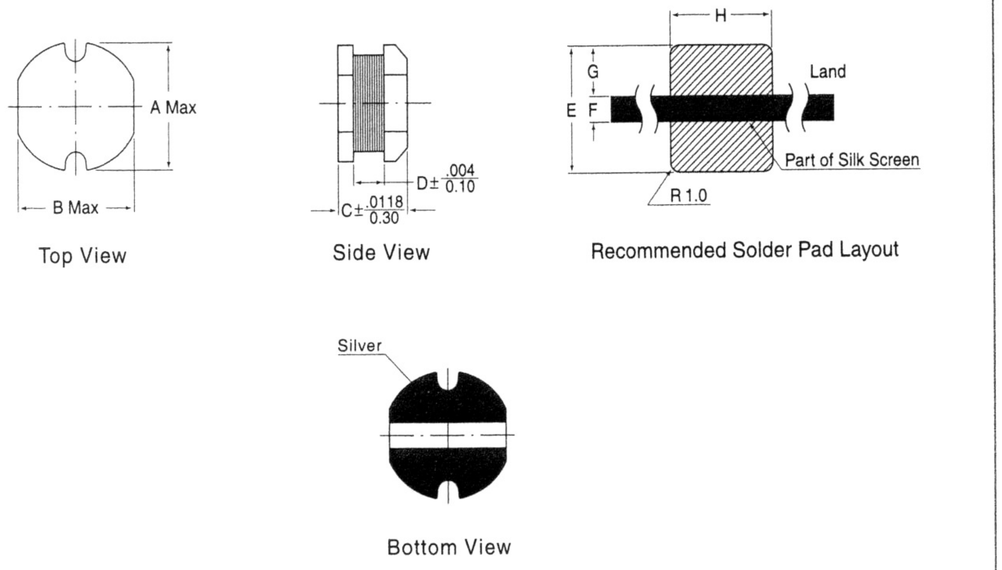


:: Specifications

Part Number	Inductance (µH ±20%)(1)	DC Resistance @ 25 Ω Max	Rated Current (Amp)(2)
AX01-101R0	1.0	0.033	3.80
AX01-101R4	1.4	0.056	2.52
AX01-101R8	1.8	0.063	1.95
AX01-102R2	2.2	0.071	1.75
AX01-102R7	2.7	0.078	1.58
AX01-103R3	3.3	0.086	1.44
AX01-103R9	3.9	0.093	1.33
AX01-104R7	4.7	0.094	1.70
AX01-105R6	5.6	0.125	0.99
AX01-106R8	6.8	0.131	0.95
AX01-108R2	8.2	0.146	0.84
AX01-10100	10.0	0.182	1.04
AX01-10120	12.0	0.210	0.97
AX01-10150	15.0	0.235	0.85
AX01-10180	18.0	0.338	0.74
AX01-10220	22.0	0.378	0.68
AX01-10270	27.0	0.522	0.62
AX01-10330	33.0	0.540	0.56
AX01-20100	10.0	0.056	2.00
AX01-20120	12.0	0.120	1.40
AX01-20150	15.0	0.140	1.30
AX01-20180	18.0	0.150	1.23
AX01-20220	22.0	0.180	1.11
AX01-20270	27.0	0.200	0.97
AX01-20330	33.0	0.230	0.88
AX01-20390	39.0	0.320	0.80
AX01-20470	47.0	0.370	0.72
AX01-20560	56.0	0.420	0.68
AX01-20680	68.0	0.460	0.61
AX01-20820	82.0	0.600	0.58
AX01-20101	100.0	0.700	0.52
AX01-20121	120.0	0.930	0.48
AX01-20151	150.0	1.100	0.40
AX01-20181	180.0	1.380	0.38
AX01-20221	220.0	1.570	0.35
AX01-30100	10.0	0.080	1.44

Part Number	Inductance (µH ±20%)(1)	DC Resistance @ 25 Ω Max	Rated Current (Amp)(2)
AX01-30120	12.0	0.089	1.39
AX01-30150	15.0	0.104	1.24
AX01-30180	18.0	0.111	1.12
AX01-30220	22.0	0.129	1.07
AX01-30270	27.0	0.153	0.94
AX01-30330	33.0	0.170	0.85
AX01-30390	39.0	0.217	0.74
AX01-30470	47.0	0.252	0.68
AX01-30560	56.0	0.282	0.64
AX01-30680	68.0	0.332	0.59
AX01-30820	82.0	0.406	0.54
AX01-30101	100.0	0.481	0.51
AX01-30121	120.0	0.536	0.49
AX01-30151	150.0	0.755	0.40
AX01-30181	180.0	1.022	0.36
AX01-30221	220.0	1.200	0.31
AX01-30271	270.0	1.306	0.29
AX01-30331	330.0	1.495	0.28
AX01-30902	9000.0	41.000	0.05
AX01-40100	10.0	0.070	2.30
AX01-40120	12.0	0.080	2.00
AX01-40150	15.0	0.090	1.80
AX01-40180	18.0	0.100	1.60
AX01-40220	22.0	0.110	1.50
AX01-40270	27.0	0.120	1.30
AX01-40330	33.0	0.130	1.20
AX01-40390	39.0	0.160	1.10
AX01-40470	47.0	0.180	1.00
AX01-40560	56.0	0.240	0.94
AX01-40680	68.0	0.280	0.85
AX01-40820	82.0	0.370	0.78
AX01-40101	100.0	0.430	0.72
AX01-40121	120.0	0.470	0.66
AX01-40151	150.0	0.640	0.58
AX01-40181	180.0	0.710	0.51
AX01-40221	220.0	0.960	0.49

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

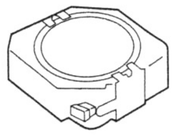
:: Specifications

Part Number	Inductance (µH ±20%)(1)	DC Resistance @ 25 Ω Max	Rated Current (Amp)(2)
AX01-40271	270.0	1.110	0.42
AX01-40331	330.0	1.260	0.40
AX01-40391	390.0	1.770	0.36
AX01-40471	470.0	1.960	0.34
AX01-50100	10.0	0.053	2.38
AX01-50120	12.0	0.061	2.13
AX01-50150	15.0	0.070	1.87
AX01-50180	18.0	0.081	1.73
AX01-50220	22.0	0.088	1.60
AX01-50270	27.0	0.100	1.44
AX01-50330	33.0	0.120	1.26
AX01-50390	39.0	0.151	1.20
AX01-50470	47.0	0.170	1.10
AX01-50560	56.0	0.199	1.01
AX01-50680	68.0	0.223	0.91
AX01-50820	82.0	0.252	0.85
AX01-50101	100.0	0.344	0.74
AX01-50121	120.0	0.396	0.69
AX01-50151	150.0	0.544	0.61
AX01-50181	180.0	0.621	0.56
AX01-50221	220.0	0.721	0.53
AX01-50271	270.0	0.949	0.45
AX01-50331	330.0	1.100	0.42
AX01-50391	390.0	1.245	0.38
AX01-50471	470.0	1.526	0.35

Part Number	Inductance (µH ±20%)(1)	DC Resistance @ 25 Ω Max	Rated Current (Amp)(2)
AX01-50561	560.0	1.904	0.32
AX01-60100	10.0	0.060	2.60
AX01-60120	12.0	0.070	2.45
AX01-60150	15.0	0.080	2.27
AX01-60180	18.0	0.090	2.15
AX01-60220	22.0	0.100	1.95
AX01-60270	27.0	0.110	1.76
AX01-60330	33.0	0.120	1.50
AX01-60390	39.0	0.140	1.37
AX01-60470	47.0	0.170	1.28
AX01-60560	56.0	0.190	1.17
AX01-60680	68.0	0.220	1.11
AX01-60820	82.0	0.250	1.00
AX01-60101	100.0	0.350	0.97
AX01-60121	120.0	0.400	0.89
AX01-60151	150.0	0.470	0.78
AX01-60181	180.0	0.630	0.72
AX01-60221	220.0	0.730	0.66
AX01-60271	270.0	0.970	0.57
AX01-60331	330.0	1.150	0.52
AX01-60391	390.0	1.300	0.48
AX01-60471	470.0	1.480	0.42
AX01-60561	560.0	1.900	0.33
AX01-60681	680.0	2.250	0.28
AX01-60821	820.0	2.550	0.24

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which ΔT=40°, whichever is lower.

SMD Power Inductors



::
Slim type
Self shielded
Height: 4.0mm maximum
Low resistance
Excellent DC current characteristics

::
Laptop and notebook computers and PDAs
DC/DC converters
Portable communication equipment
Inductor for general purpose use

::

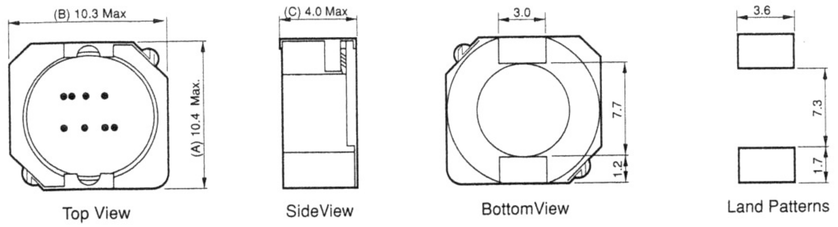
Model	Inductance[1] µH	Rated DC[2] Current Amps	DC resistance[3] Ω Max
AX104R-1R5	1.5	6.5	8.1m
AX104R-2R5	2.5	6.1	10m
AX104R-4R7	4.7	6.0	13m
AX104R-6R8	6.8	4.8	19.5m
AX104R-8R2	8.2	4.6	25m
AX104R-100	10.0	4.4	35m
AX104R-150	15.0	3.6	50m
AX104R-220	22.0	2.9	73m

Model	Inductance[1] µH	Rated DC[2] Current Amps	DC resistance[3] Ω Max
AX104R-330	33.0	2.30	93m
AX104R-470	47.0	2.10	128m
AX104R-680	68.0	1.50	213m
AX104R-101	100.0	1.35	304m
AX104R-151	150.0	1.15	506m
AX104R-221	220.0	0.92	756m
AX104R-331	330.0	0.70	1.09

Notes: 1. Inductance measured at 100 kHz 1.0 V without DC current. Tolerance: ±30% (N).
2. Rated current is the approximate current at which inductance will be decreased by 35% from its initial (zero DC) value.
3. DC Resistance measured at 20°C.

::

Technical Notes
[mm]



SMD Power Inductors

::
Slim type
Self shielded
Height: 6.5mm maximum
Low resistance
Excellent DC current characteristics

::
Laptop and notebook computers and PDAs
DC/DC converters
Inductor for general purpose use

::

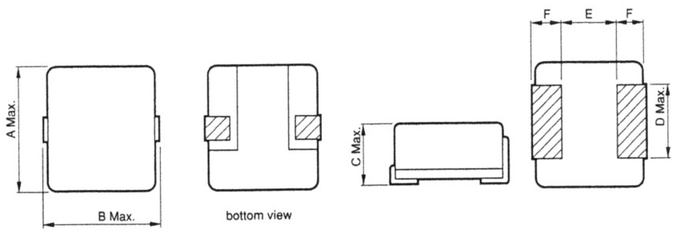
Model	Inductance[4] µH ±20%	Rated DC[2] Current Amps	The saturation[3] DC Current Amps	DC Resistance[4] mΩ Max
AX02-300R6	0.6	27.0	40.0	1.25
AX02-301R0	1.0	23.0	34.0	1.70
AX02-301R5	1.5	18.0	30.0	2.30
AX02-302R2	2.2	12.0	24.0	5.10
AX02-303R9	3.9	10.0	18.0	7.20
AX02-304R6	4.6	9.0	14.0	8.30
AX02-306R4	6.4	6.5	16.0	9.60

Notes: 1. Inductance measured at 100 kHz 1.0 V without DC current.
2. Rated current is the approximate current at which inductance will be decreased by 15% from its initial (zero DC) value.
3. The saturation DC current at which inductance rolls off approximately 30% from its initial value.
4. DC Resistance measured at 20°C.

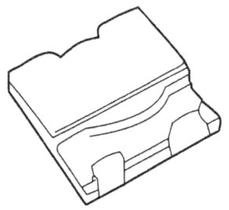
::

Technical Notes
A = .523 [13.3]
B = .590 [15.0]
C = .236 [6.50]
D = .295 [7.50]
E = .236 [6.00]
F = .177 [4.50]

Inches [mm]



SMD Power Inductors

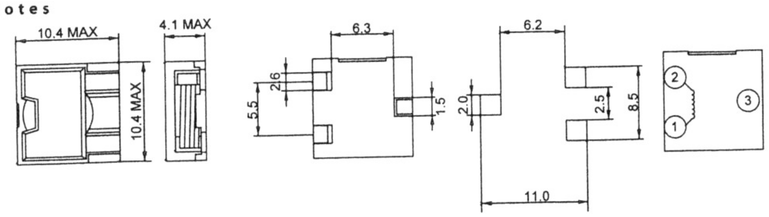


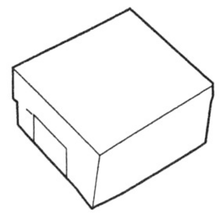
Part Number	Inductance µH±20% (M)	Rated DC[2] Currnt Amps	DC Resistance[3] Ω Max
AXFS05-400R22	0.22	25.0	2.00
AXFS05-400R45	0.45	20.0	4.25
AXFS05-400R8	0.80	16.0	6.82
AXFS05-401R5	1.50	13.0	6.82
AXFS05-402R0	2.00	10.0	9.84
AXFS05-403R3	3.30	8.0	9.84
AXFS05-404R7	4.70	5.5	9.84

Notes: 1. Inductance measured at 100khz .0.1v without DC current.
2. Rated current is the approximate current at which inductance will be decreased by 15% from its initial (zero DC) value.
3. DC Resistance measured at 20°C.

Flat wire
Height: 4.1mm maximum
Low resistance
Excellent DC current characteristics

Technical Notes
[mm]



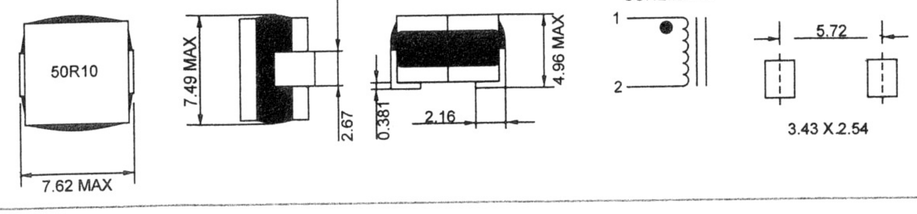


Part Number	Inductance	Inductance @0 ADC	Inductance @ rated current	Rated current	DCR		Saturation Current		
		nH	nH	ADC	mohm		ADC	ADC	ADC
50R10	100	± 10%	MIN	MAX	TYP	MAX	-40°C	25°C	125°C
		100	80	46	0.23	0.30	48	46	35

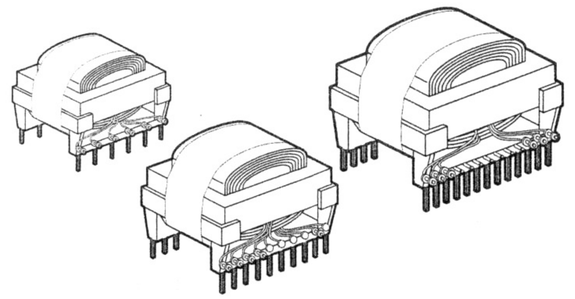
Notes: 1. Inductance measured at 100khz 1.0v without DC current. Tolerance: ±10% (K).
2. Rated current is the approximate current at which inductance will be decreased by 20% from its initial (zero DC) value.
3. DC Resistance measured at 20°C.

Slim type, Height: 4.96mm maximum,
Low resistance, Excellent DC current characteristics

Technical Notes
[mm]



Switchmode/High Frequency

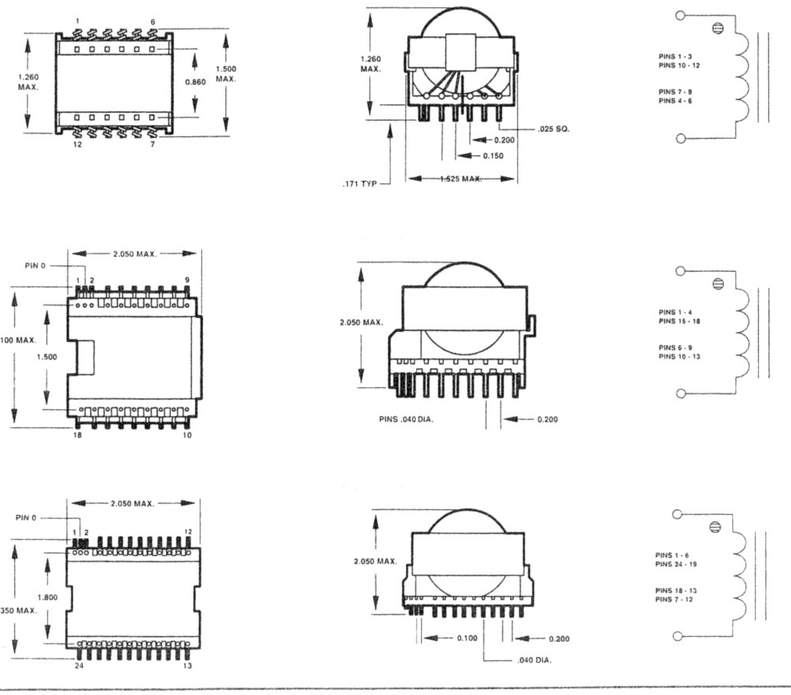


Triad output filter inductors are used in output circuit applications to provide a more constant current source by storing energy. These inductors have exceptional performance characteristics across the entire specification range with their primary function being energy storage. As opposed to other output filter inductor designs offering only a single winding, these devices offer design flexibility so that several outputs can be fed through different windings on the same core.

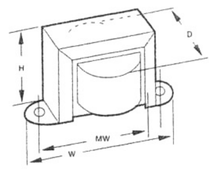
Operating Frequency: 10KHz - 250 KHz

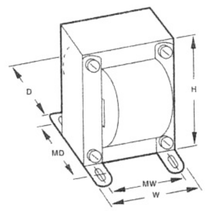
Section	Type No.	Figure	Inductance @ No DC	DC Amps	DC Resistance mOhms	Inductance @ DC Bias	Wt. Lbs.
A	FIE137-1	A	17.9 µH	35.0	2.00	9.0 µH	.20
	FIE137-2		29.7 µH	25.0	4.00	15.5 µH	
B	FIE168-1	B	19.2 µH	70.0	1.00	10.2 µH	.54
	FIE168-2		31.2 µH	50.0	2.00	16.0 µH	
C	FIE220-1	C	11.7 µH	120.0	1.00	5.0 µH	1.03
	FIE220-2		46.8 µH	60.0	3.00	21.3 µH	

Technical Notes
1. DC resistance ±15%.
2. Inductance ±10%.



Inductors





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Triad chokes are manufactured in a wide variety of inductance values and physical configurations. Smoothing chokes are power supply filter chokes having a core with an air gap which prevents saturation at maximum direct current.

::

Inductance Ranges: .005 to 15 H
DC Current Ranges: 10 Ma to 22.5 A
Resistance Ranges: .06 to 3,500 Ohms

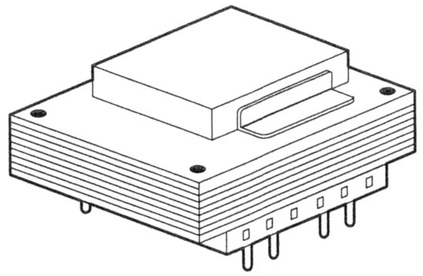
:: Smoothing Filter Chokes

Section	Type No.	Current DC M/A	Inductance†† Henries	Resistance Ohms/	Case Type	Connections	lead Holes Used	Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	C-85X	10.0	1.500	70.00	X (1)	Leads	•	1¼	2⅛	1⅛	1¼	•	0.40
	C-1X	20.0	15.000	1,000.00	X (1)	Leads	•	1 3/16	2 5/16	1¼	1¼	•	0.21
	C-3X	50.0	10.000	500.00	X (1)	Leads	•	1⅜	2 13/16	1½	2⅜	•	0.60
B	C-8X	75.0	7.000	240.00	X (1)	Leads	•	1 15/16	3 5/16	1¼	2 13/16	•	1.00
	C-7X	90.0	10.000	270.00	X (1)	Leads	•	1 15/16	3 5/16	2	2 13/16	•	1.30
C	C-14X	200.0	6.000	150.00	X (1)	Leads	•	2 29/32	4	2¼	3 5/16	•	2.30
	C-24X	240.0	1.000	50.00	X (1)	Leads	•	1⅜	2 13/16	1½	2⅜	•	0.75
D	C-36X	300.0	0.500	30.00	X (1)	Leads	•	1⅜	2⅛	1½	2	•	0.50
E	C-17X	300.0	1.500	40.00	X (1)	Leads	•	2 3/32	3 1/16	2	3⅛	•	1.60
F	C-40X	600.0	0.320	10.00	X (1)	Leads	•	1 15/16	3 5/16	2	2 13/16	•	1.30
	C-47U	1.0A/2.0A	0.3/0.75§	3.0/0.75	U (2)	Leads	•	3½	2⅞	3 5/16	2¼	2 11/16	4.60
	C-56U	2.0	0.0350	0.79	U (2)	Lugs	•	2¼	2⅝	2	2 5/16	1¾	2.00
G	C-49U	5.0A/10.0A	0.032/0.008§	0.19/0.05	U (2)	Leads	•	4¼	3½	3⅜	2¼	3 5/16	8.00
	C-59U	12.5A	0.010	0.10	U (2)	Lugs	•	3½	4⅛	3	3 7/16	2⅝	6.25
	C-80U	20.0A/40.0A	0.024/0.006§	0.1/0.025	U (7)	Lugs	•	5 5/16	4 9/16	5½	2¾	4½	21.25
	C-60U	22.5A	0.005	0.06	U (2)	Lugs	•	3¾	4½	4 9/16	3¾	3½	12.75

†† = Inductance tolerance – 20% + 50% § Split winding
Mounting hole sizes: (1) = 9/64" (2) = 9/64 x 3/8" (7) = 9/32 x 1/2"

Technical Notes
1. Hi-pot tested at 1,500 VRMS.
2. Connections by leads or solder lugs.
3. Inductance tolerence -20% +50%.

Power Transformers



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Triad PC mount World Series transformers incorporate a dual bobbin construction with an insulating shroud, both made of a high temperature material that exceeds UL flammability requirements. These units are designed with very high isolation between the primary and secondary, and also, between each winding and the core. Since the dual bobbin construction effectively reduces capacitance, electrostatic shielding is not required. PC mount transformers are available with ratings from 2.5 VA 56.0 VA and have dimensionally accurate pin placement for through hole PC board mounting. All World Series transformers meet U.S. and International standards including CSA, IEC, VDE and UL requirements, and therefore have universal application.

::

Primary: 115/230 V, 50/60 Hz **VA Ranges:** 2.5 to 56.0

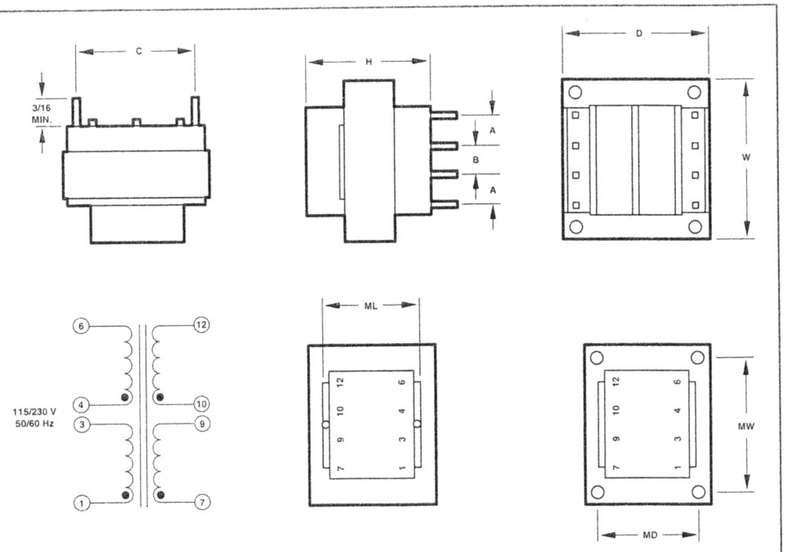
::

Section	Type No.	VA	Secondary Series	Secondary Parallel	Dimensions H	W	D	A	B	C	Pin Dim.	Mounting ML	MD	MW	WT Lbs.
A	VPP10-250*	2.5	10.0V CT @ 0.25A	5.0V @ 0.5A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP10-500	5.0	10.0V CT @ 0.5A	5.0V @ 1.0A	1⅛	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP10-1000	10.0	10.0V CT @ 1.0A	5.0V @ 2.0A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP10-2000	20.0	10.0V CT @ 2.0A	5.0V @ 4.0A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP10-3000	30.0	10.0V CT @ 3.0A	5.0V @ 6.0A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP10-5600	56.0	10.0V CT @ 5.6A	5.0V @ 11.2A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
B	VPP12-200*	2.5	12.6V CT @ 0.2A	6.3V @ 0.4A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP12-400	5.0	12.6V CT @ 0.4A	6.3V @ 0.8A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP12-800	10.0	12.6V CT @ 0.8A	6.3V @ 1.6A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP12-1600	20.0	12.6V CT @ 1.6A	6.3V @ 3.2A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP12-2400	30.0	12.6V CT @ 2.4A	6.3V @ 4.8A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP12-4400	56.0	12.6V CT @ 4.4A	6.3V @ 8.8A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
C	VPP16-150*	2.5	16.0V CT @ 0.15A	8.0V @ 0.3A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP16-310	5.0	16.0V CT @ 0.31A	8.0V @ 0.62A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP16-620	10.0	16.0V CT @ 0.62A	8.0V @ 1.25A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP16-1250	20.0	16.0V CT @ 1.25A	8.0V @ 2.5A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP16-1900	30.0	16.0V CT @ 1.9A	8.0V @ 3.8A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP16-3500	56.0	16.0V CT @ 3.5A	8.0V @ 7.0A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
D	VPP20-120*	2.5	20.0V CT @0.12A	10.0V @ 0.24A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP20-250	5.0	20.0V CT @0.25A	10.0V @ 0.5A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP20-500	10.0	20.0V CT @0.5A	10.0V @ 1.0A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP20-1000	20.0	20.0V CT @1.0A	10.0V @ 2.0A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP20-1500	30.0	20.0V CT @1.5A	10.0V @ 3.0A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP20-2800	56.0	20.0V CT @2.8A	10.0V @ 5.6A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
E	VPP24-100*	2.5	24.0V CT @0.1A	12.0V @ 0.2A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP24-210	5.0	24.0V CT @0.21A	12.0V @ 0.42A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP24-420	10.0	24.0V CT @0.42A	12.0V @ 0.84A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP24-830	20.0	24.0V CT @0.83A	12.0V @ 1.66A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP24-1250	30.0	24.0V CT @1.25A	12.0V @ 2.50A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP24-2330	56.0	24.0V CT @2.33A	12.0V @ 4.66A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
F	VPP28-090*	2.5	28.0V CT @0.09A	14.0V @ 0.18A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP28-180	5.0	28.0V CT @0.18A	14.0V @ 0.36A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP28-360	10.0	28.0V CT @0.36A	14.0V @ 0.72A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP28-720	20.0	28.0V CT @0.72A	14.0V @ 1.44A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP28-1060	30.0	28.0V CT @1.06A	14.0V @ 2.12A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP28-2000	56.0	28.0V CT @2.0A	14.0V @ 4.0A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70
G	VPP36-070*	2.5	36.0V CT @0.07A	18.0V @ 0.14A	1⅛	1⅜	1 1/16	.200	.250	1.000	0.025 Sq.	1 1/16	•	•	0.25
	VPP36-140	5.0	36.0V CT @0.14A	18.0V @ 0.28A	1⅜	1⅜	1 1/16	.200	.400	1.000	0.025 Sq.	1 1/16	•	•	0.37
	VPP36-280	10.0	36.0V CT @0.28A	18.0V @ 0.56A	1⅜	1⅞	1 1/16	.200	.400	1.140	0.036 Sq.	1¼	•	•	0.53
	VPP36-560	20.0	36.0V CT @0.56A	18.0V @ 1.12A	1⅝	2¼	1⅞	.400	.400	1.460	0.036 Sq.	1½	•	•	0.90
	VPP36-820	30.0	36.0V CT @0.82A	18.0V @ 1.64A	1 9/16	2⅝	2 1/16	.550	.275	1.680	0.045 Sq.	•	1¼	2 5/16	1.15
	VPP36-1560	56.0	36.0V CT @1.56A	18.0V @ 3.12A	1 9/16	3	2½	.600	.300	1.900	0.045 Sq.	•	2	2½	1.70

*CT = Center Tap * Note: All 2.5 VA units are Class 2 UL File: E65390.*

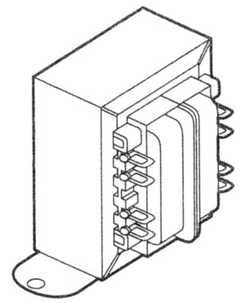
Technical Notes

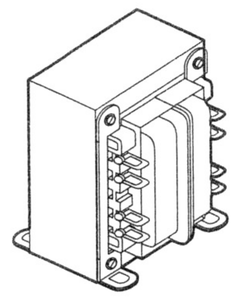
1. Hi-pot tested at 4,000 VRMS.
2. Both primary and secondary coils may be connected as either series or parallel, but both must be used simultaneously.



The Sales, Service and Technical professionals at Triad Magnetics have over 100 years combined experience in the magnetics industry. This translates to solutions you can count on for your power, switching and filtering applications.

Power Transformers





Triad chassis mount World Series transformers are designed to meet U.S. and International standards including CSA, IEC, VDE and UL requirements. The transformers consist of a dual bobbin design positioned inside an insulating shroud and constructed with UL approved high temperature material. This design eliminates the need for electrostatic shielding since there is minimal capacitance between coils when using a dual bobbin configuration. The primary and secondary are both electrically isolated from each other, and from the core itself. Chassis mount World Series transformers are available in sizes ranging from 25 VA to 175 VA, and are equipped with convenient "quick connect" terminations.

Primary: 115/230 V, 50/60 Hz

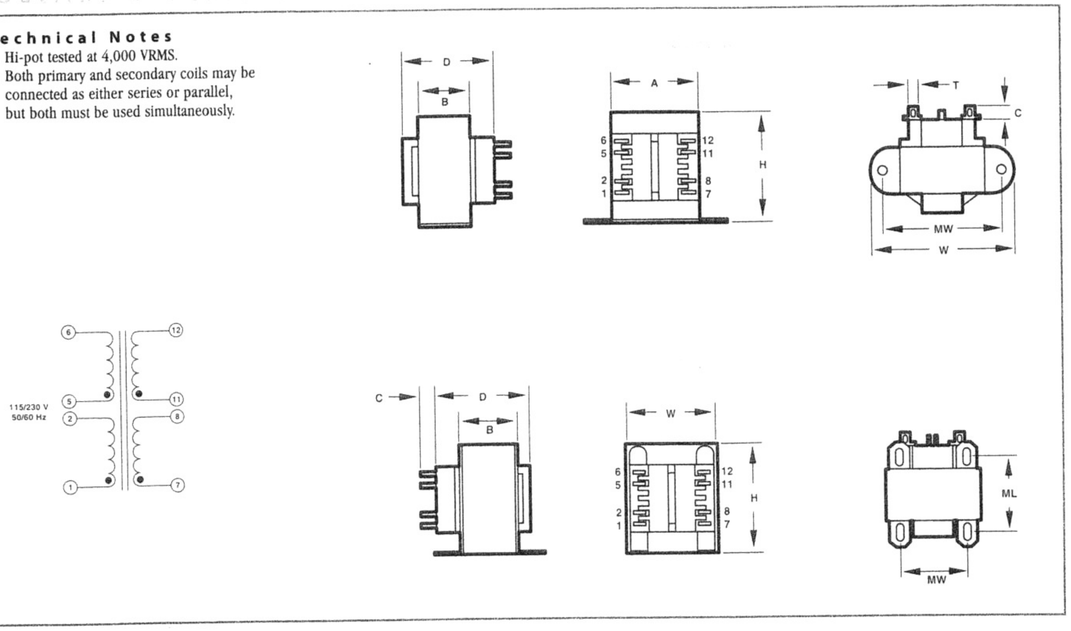
Section	Type No.	VA	Secondary Series	Secondary Parallel	Dimensions H	W	D	A	B	C	T	Figure	Mounting MW	Mounting ML	Wt. Lbs.
A	VPS10-2500	25	10.0V CT @ 2.5A	5.0V @ 5.0A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS10-4300	43	10.0V CT @ 4.3A	5.0V @ 8.6A	2 1/16	3 1/4	2	2 9/16	1 1/4	5/16	5/16	A	2 19/16	•	1.60
	VPS10-8000	80	10.0V CT @ 8.0A	5.0V @ 16.0A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS10-13000	130	10.0V CT @ 13.0A	5.0V @ 26.0A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS10-17500	175	10.0V CT @ 17.5A	5.0V @ 35.0A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
B	VPS12-2000	25	12.6V CT @ 2.0A	6.3V @ 4.0A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS12-3400	43	12.6V CT @ 3.4A	6.3V @ 6.8A	2 1/16	3 1/4	2	2 9/16	1 1/4	5/16	5/16	A	2 19/16	•	1.60
	VPS12-6300	80	12.6V CT @ 6.3A	6.3V @ 12.6A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS12-10300	130	12.6V CT @ 10.3A	6.3V @ 20.6A	3 1/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS12-14000	175	12.6V CT @ 14.0A	6.3V @ 28.0A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
C	VPS16-1600	25	16.0V CT @ 1.6A	8.0V @ 3.2A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS16-2700	43	16.0V CT @ 2.7A	8.0V @ 5.4A	2 1/16	3 1/4	2	2 9/16	1 1/8	5/16	5/16	A	2 19/16	•	1.60
	VPS16-5000	80	16.0V CT @ 5.0A	8.0V @ 10.0A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS16-8100	130	16.0V CT @ 8.1A	8.0V @ 16.2A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS16-11000	175	16.0V CT @ 11.0A	8.0V @ 22.0A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
D	VPS20-1250	25	20.0V CT @ 1.25A	10.0V @ 2.5A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS20-2200	43	20.0V CT @ 2.2A	10.0V @ 4.4A	2 1/16	3 1/4	2	2 9/16	1 1/4	5/16	5/16	A	2 19/16	•	1.60
	VPS20-4000	80	20.0V CT @ 4.0A	10.0V @ 8.0A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS20-6500	130	20.0V CT @ 6.5A	10.0V @ 13.0A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS20-8800	175	20.0V CT @ 8.8A	10.0V @ 17.6A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
E	VPS24-1000	25	24.0V CT @ 1.0A	12.0V @ 2.0A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS24-1800	43	24.0V CT @ 1.8A	12.0V @ 3.6A	2 1/16	3 1/4	2	2 9/16	1 1/8	5/16	5/16	A	2 19/16	•	1.60
	VPS24-3300	80	24.0V CT @ 3.3A	12.0V @ 6.6A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS24-5400	130	24.0V CT @ 5.4A	12.0V @ 10.8A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS24-7300	175	24.0V CT @ 7.3A	12.0V @ 14.6A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
F	VPS28-900	25	28.0V CT @ 0.9A	14.0V @ 1.8A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS28-1500	43	28.0V CT @ 1.5A	14.0V @ 3.0A	2 1/16	3 1/4	2	2 9/16	1 1/8	5/16	5/16	A	2 19/16	•	1.60
	VPS28-2800	80	28.0V CT @ 2.8A	14.0V @ 5.6A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS28-4600	130	28.0V CT @ 4.6A	14.0V @ 9.2A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS28-6250	175	28.0V CT @ 6.25A	14.0V @ 12.5A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
G	VPS36-700	25	36.0V CT @ 0.7A	18.0V @ 1.4A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS36-1200	43	36.0V CT @ 1.2A	18.0V @ 2.4A	2 1/16	3 1/4	2	2 9/16	1 1/8	5/16	5/16	A	2 19/16	•	1.60
	VPS36-2200	80	36.0V CT @ 2.2A	18.0V @ 4.4A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS36-3600	130	36.0V CT @ 3.6A	18.0V @ 7.2A	3 3/4	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS36-4800	175	36.0V CT @ 4.8A	18.0V @ 9.6A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50
H	VPS56-2300	80	36.0V CT @ 2.3A	28.0V @ 4.6A	3 3/8	2 3/4	3 1/4	2 3/4	1 1/2	3/8	1/4	B	2 1/4	2 1/2	4.2
I	VPS230-110	25	230.0V CT @ 0.11A	115.0V @ 0.22A	2 9/16	2 19/16	1 15/16	2	1 1/8	5/16	5/16	A	2 3/8	•	1.25
	VPS230-190	43	230.0V CT @ 0.19A	115.0V @ 0.38A	2 1/16	3 1/4	2	2 9/16	1 1/4	5/16	5/16	A	2 19/16	•	1.60
	VPS230-350	80	230.0V CT @ 0.35A	115.0V @ 0.7A	3	2 1/2	2 9/16	•	1 1/8	5/16	5/16	B	2	2 1/4	2.80
	VPS230-570	130	230.0V CT @ 0.57A	115.0V @ 1.14A	3 3/8	2 19/16	2 1/16	•	1 1/8	3/8	1/4	B	2 1/4	2 1/2	4.10
	VPS230-760	175	230.0V CT @ 0.76A	115.0V @ 1.52A	3 1/2	3 1/4	2 19/16	•	1 1/8	3/8	1/4	B	2 1/2	2 1/2	5.50

CT = Center Tap Mounting Hole Sizes: 25 VA, 43 VA = 9/16" 80 VA, 130 VA, 175 VA = 13/64 x 3/8"

:: Outline Drawings

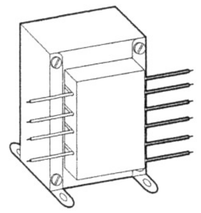
Technical Notes

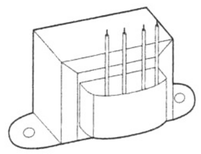
1. Hi-pot tested at 4,000 VRMS.
2. Both primary and secondary coils may be connected as either series or parallel, but both must be used simultaneously.



Triad Magnetics is a global leader and trusted name in magnetics for more than 50 years.

Power Transformers





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Triad International Series transformers are constructed with European style split bobbins to meet International safety agency standards. The split bobbin construction reduces interwinding capacitance and eliminates the need for electrostatic shielding.

::

Available in sizes from 5VA to 56 VA 115 V / 230 V 50/60 Hz Primary windings; 3,500 V isolation between primary and secondary; designed with 6mm creepage distance primary to secondary.

::

Secton	Part Number	VA	Secondary Series Connected Volts	Amps	Secondary Parallel Connected Volts	Amps	Center Tap	Schematic	Case Type	Dimensions H	W	D	Mounting Dimensions MW	MD	Weight Lbs.
A	VPL10-500	5	10.0	0.500	5.00	1.000	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL12-400	5	12.6	0.390	6.30	0.780	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL14-360	5	14.0	0.360	7.00	0.710	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL16-300	5	16.0	0.310	8.00	0.620	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL20-250	5	20.0	0.250	10.00	0.500	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL24-210	5	24.0	0.210	12.00	0.420	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL26-190	5	26.8	0.190	13.40	0.370	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL28-180	5	28.0	0.180	14.00	0.360	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
	VPL36-140	5	36.0	0.140	18.00	0.280	N	2	X	1 7/16"	2 3/4"	1 7/16"	2	•	0.4
B	VPL2-4000	10	2.5	4.000	1.25	8.000	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL10-1000	10	10.0	1.000	5.00	2.000	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL12-800	10	12.6	0.790	6.30	1.590	N	1	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL16-600	10	16.0	0.630	8.00	1.260	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL20-500	10	20.0	0.500	10.00	1.000	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL24-400	10	24.0	0.410	12.00	0.820	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL28-350	10	28.0	0.350	14.00	0.700	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
	VPL36-300	10	36.0	0.280	18.00	0.560	N	2	X	1 1/4"	2 13/16"	1 1/4"	2 3/4"	•	0.7
C	VPL2-10000	25	2.5	10.000	1.25	20.000	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL10-2500	25	10.0	2.500	5.00	5.000	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL12-2000	25	12.6	1.980	6.30	3.960	Y	1	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL16-1600	25	16.0	1.570	8.00	3.130	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL20-1200	25	20.0	1.250	10.00	2.500	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL24-1100	25	24.0	1.040	12.00	2.080	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL25-1000	25	25.2	0.990	12.60	1.980	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL26-930	25	26.8	0.930	13.40	1.860	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL28-900	25	28.0	0.890	14.00	1.790	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
	VPL36-700	25	36.0	0.700	18.00	1.400	N	2	X	1 15/16"	3 1/4"	2 1/4"	2 13/16"	•	1.3
D	VPL10-5000	50	10.0	5.000	5.00	10.000	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL12-4000	50	12.6	3.970	6.30	7.940	Y	1	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL16-3100	50	16.0	3.125	8.00	6.250	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL20-2500	50	20.0	2.500	10.00	5.000	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL24-2000	50	24.0	2.083	12.00	4.166	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL25-1900	50	25.2	1.984	•	•	N	3	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL26-1800	50	26.8	1.866	•	•	N	3	X	2 7/16"	4"	2-1/4"	3 7/16"	•	2.3
	VPL28-1700	50	28.0	1.786	14.00	3.572	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
	VPL36-1400	50	36.0	1.389	18.00	2.778	N	2	X	2 7/16"	4"	2 1/4"	3 7/16"	•	2.3
E	VPL28-2000	56	28.0	2.000	14.00	4.000	Y	1	U	3 1/16"	2 9/16"	2 1/4"	2"	2 1/4"	2.7

Technical Note: Primary and secondary windlings are designed to be connected in Series or Parallel. Windings are not intended to be used independently.

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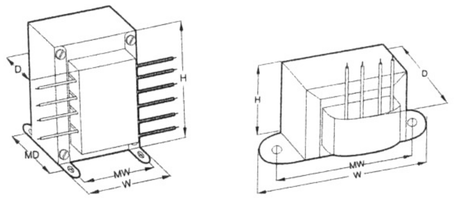
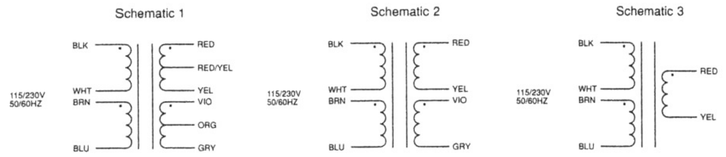
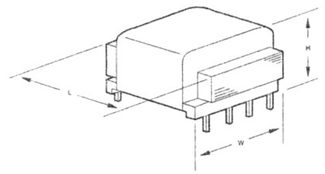
Technical Notes

1. Primary and secondary windings are designed to be connected in series or parallel.
Windings are not intended to be used independently.





Power Transformers



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The Triad Flat pack power transformer is designed to meet the needs of lower clearance PC board and solid state power designs. These units can also be used for control and instrumentation applications. Voltages and currents were chosen for widely used power applications. It is offered in a dual primary and dual secondary configuration.

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Primary: 115/230 V, 50/60 Hz **Hi Pot Tested:** 2,000 VRMS **Low Profile:** Allows 3/4" card spacing for 2.5 VA units; Allows 1" card spacing for 6 VA units; Allows 1 1/4" card spacing for 12 VA units: Allows 1 1/2" card spacing for 24 VA and 48 VA units.

::

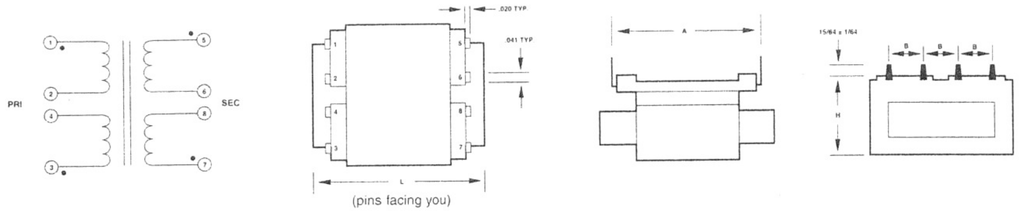
Section	Type No.	VA	Secondary		Dimensions					Wt. Oz.
			Series	Parallel	H	W	L	A	B	
A	**FP10-250**	2.5	10.0V CT @ 0.25A	5.0V @ 0.5A	0.650	1.562	1.875	1.600	0.375	5
	FP12-200		12.6V CT @ 0.2A	6.3V @ 0.4A						
	FP16-150		16.0 CT @ 0.15A	8.0V @ 0.3A						
	FP20-125		20.0 CT @ 0.125A	10.0V @ 0.25A						
	FP24-100		24.0 CT @ 0.1A	12.0V @ 0.2A						
	FP30-85		30.0V CT @ 0.08A	15.0V @0.16A						
	FP34-75		34.0V CT @ 0.075A	17.0V @ 0.15A						
	FP40-60		40.0V CT @ 0.06A	20.0V @ 0.12A						
	FP56-45		56.0V CT @ 0.045A	28.0V @ 0.09A						
	FP88-28		88.0V CT @ 0.028A	44.0V @ 0.056A						
	FP120-20		120.0V CT @ 0.02A	60.0V @ 0.04A						
	FP230-10		230.0V CT @ 0.01A	115.0V @ 0.02A						
B	**FP10-600**	6.0	10.0V CT @ 0.6A	5.0V @ 1.2A	0.875	1.562	1.875	1.600	0.375	7
	FP12-475		12.6V CT @ 0.475A	6.3V @ 0.95A						
	FP16-375		16.0 CT @ 0.375A	8.0V @ 0.75A						
	FP20-300		20.0 CT @ 0.3A	10.0V @ 0.8A						
	FP24-250		24.0 CT @ 0.25A	12.0V @ 0.5A						
	FP30-200		30.0V CT @ 0.2A	15.0V @ 0.4A						
	FP34-170		34.0V CT @ 0.17A	17.0V @ 0.34A						
	FP40-150		40.0V CT @ 0.15A	20.0V @ 0.3A						
	FP56-100		56.0V CT @ 0.1A	28.0V @ 0.2A						
	FP88-65		88.0V CT @ 0.065A	44.0V @ 0.13A						
	FP120-50		120.0V CT @ 0.05A	60.0V @ 0.1A						
	FP230-25		230.0V CT @ 0.025A	115.0V @ 0.05A						
C	**FP10-1200**	12.0	10.0V CT @ 1.2A	5.0V @ 2.4A	1.062	2.000	2.500	2.000	0.500	11
	FP12-950		12.6V CT @ 0.95A	6.3V @ 1.9A						
	FP16-750		16.0 CT @ 0.75A	8.0V @ 1.5A						
	FP20-600		20.0 CT @ 0.6A	10.0V @ 1.2A						
	FP24-500		24.0 CT @ 0.5A	12.0V @ 1.0A						
	FP30-400		30.0V CT @ 0.4A	15.0V @ 0.8A						
	FP34-340		34.0V CT @ 0.34A	17.0V @ 0.68A						
	FP40-300		40.0V CT @ 0.3A	20.0V @ 0.6A						
	FP56-200		56.0V CT @ 0.2A	28.0V @ 0.4A						
	FP88-130		88.0V CT @ 0.13A	44.0V @ 0.26A						
	FP120-100		120.0V CT @ 0.1A	60.0V @ 0.2A						
	FP230-50		230.0V CT @ 0.05A	115.0V @ 0.1A						
D	**FP10-2400**	24	10.0V CT @ 2.4A	5.0V @ 4.8A	1.375	2.25	2.87	1.9	0.600	15
	FP12-1900		12.6V CT @ 1.9A	6.3V @ 3.8A						
	FP16-1500		16.0V CT @ 1.5A	8.0V @ 3.0A						
	FP20-1200		20.0V CT @ 1.2A	10.0V @ 2.4A						
	FP24-1000		24.0V CT @ 1.0A	12.0V @ 2.0A						
	FP30-800		30V CT @ 0.80mA	15.0V @ 1.6A						
	FP34-700		34V CT @ 0.70mA	17.0V @ 1.4A						
	FP40-600		56V CT @ 0.60mA	20.0V @ 1.2A						
	FP56-425		56V CT @ 0.425mA	28.0V @ 0.85A						
E	**FP10-4800**	48	10V CT @ 4.8A	5.0V @ 9.6A	1.375	2.5	3.12	2.18	0.600	21
	FP12-3800		12.6V CT @ 3.8A	6.3V @ 7.6A						
	FP16-3000		16V CT @ 3.0A	8.0V @ 6.0A						
	FP20-2400		20.0V CT @ 2.4A	10.0V @ 4.8A						
	FP24-2000		24.0V CT @ 2.0A	12.0V @ 4.0A						
	FP30-1600		30.0V CT @ 1.6A	15.0V @ 3.2A						
	FP34-1400		34.0V CT @ 1.4A	17.0V @ 2.8A						
	FP40-1200		40.0V CT @ 1.2A	20.0V @ 2.4A						
	FP56-850		56.0V CT @ 0.85A	28.0V @ 1.7A						

CT = Center Tap

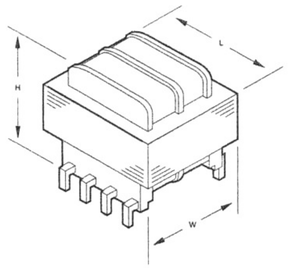
::

Technical Notes

1. Hi-pot tested at 2,000 VRMS.
2. Split bobbin with side-by-side windings to reduce capacitance and eliminate the need for a static shield.



Power Transformers



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The Triad Split Pack split bobbin transformer is an extremely versatile tool for PC board applications. Split Pack transformers are nonconcentrically wound -- with primaries and secondaries side-by-side. Unlike the secondary-on-top-of-primary designs of standard PC board transformers, the split bobbin winding and low capacitive coupling eliminate costly electrostatic shielding. It is offered in a dual secondary configuration with either single or dual primaries.

::

Primary: 115 V, 50/60 Hz **VA Ranges:** 1.1 to 36.0
Secondary: Series - 10 to 120 V; Parallel - 5 to 60 V

::

Section	Single Primary 6 Pin	Dual Primary 8 Pin	VA	Secondary		Dimensions							Wt. Lbs.
				Series	Parallel	H	W	L	ML	A	B	C	
A	F10-110	FS10-110	1.1	10.0V CT @ 0.11A	5.0V @ 0.22A	1⁹⁄₁₆	1¼	1⅜	•	0.250	0.250	1.20	0.17
	F12-090	FS12-090		12.6V CT @ 0.09A	6.3V @ 0.18A								
	F16-070	FS16-070		16.0V CT @ 0.07A	8.0V @ 0.14A								
	F20-055	FS20-055		20.0V CT @ 0.055A	10.0V @ 0.11A								
	F24-045	FS24-045		24.0V CT @ 0.045A	12.0V @ 0.09A								
	F28-040	FS28-040		28.0V CT @ 0.040A	14.0V @ 0.08A								
	F36-030	FS36-030		36.0V CT @ 0.03A	18.0V @ 0.06A								
	F48-023	FS48-023		48.0V CT @ 0.023A	24.0V @ 0.046A								
	F56-020	FS56-020		56.0V CT @ 0.02A	28.0V @ 0.04A								
	F120-010	FS120-01		120.0V CT @ 0.01A	60.0V @ 0.02A								
B	F10-250	FS10-250	2.5	10.0V CT @ 0.25A	5.0V @ 0.5A	1⁹⁄₁₆	1⅛	1⅜	•	0.250	0.250	1.20	0.25
	F12-200	FS12-200		12.6V CT @ 0.2A	6.3V @ 0.4A								
	F16-150	FS16-150		16.0V CT @ 0.15A	8.0V @ 0.3A								
	F20-120	FS20-120		20.0V CT @ 0.12A	10.0V @ 0.24A								
	F24-100	FS24-100		24.0V CT @ 0.1A	12.0V @ 0.2A								
	F28-85	FS28-85		28.0V CT @ 0.085A	14.0V @ 0.17A								
	F36-65	FS36-65		36.0V CT @ 0.065A	18.0V @ 0.13A								
	F48-050	FS48-050		48.0V CT @ 0.05A	24.0V @ 0.1A								
	F56-045	FS56-045		56.0V CT @ 0.045A	28.0V @ 0.09A								
	F120-020	FS120-02		120.0V CT @ 0.02A	60.0V @ 0.04A								
C	F10-600	FS10-600	6.0	10.0V CT @ 0.6A	5.0V @ 1.2A	1¹⁵⁄₁₆	1¹⁵⁄₁₆	1⅞	1¹⁵⁄₁₆	0.250	0.350	1.280	0.44
	F12-500	FS12-500		12.6V CT @ 0.5A	6.3V @ 1.0A								
	F16-400	FS16-400		16.0V CT @ 0.4A	8.0V @ 0.8A								
	F20-300	FS20-300		20.0V CT @ 0.3A	10.0V @ 0.6A								
	F24-250	FS24-250		24.0V CT @ 0.25A	12.0V @ 0.5A								
	F28-200	FS28-200		28.0V CT @ 0.2A	14.0V @ 0.4A								
	F36-170	FS36-170		36.0V CT @ 0.17A	18.0V @ 0.34A								
	F48-125	FS48-125		48.0V CT @ 0.125A	24.0V @ 0.25A								
	F56-110	FS56-110		56.0V CT @ 0.11A	28.0V @ 0.22A								
	F120-050	FS120-05		120.0V CT @ 0.05A	60.0V @ 0.1A								
D	F10-1200	FS10-1200	12.0	10.0V CT @ 1.2A	5.0V @ 2.4A	1¹⁵⁄₁₆	1⁹⁄₁₆	1⅞	1¼	0.30	0.40	1.410	0.70
	F12-1000	FS12-1000		12.6V CT @ 1.0A	6.3V @ 2.0A								
	F16-800	FS16-800		16.0V CT @ 0.8A	8.0V @ 1.6A								
	F20-600	FS20-600		20.0V CT @ 0.6A	10.0V @ 1.2A								
	F24-500	FS24-500		24.0V CT @ 0.5A	12.0V @ 1.0A								
	F28-420	FS28-420		28.0V CT @ 0.42A	14.0V @ 0.84A								
	F36-350	FS36-350		36.0V CT @ 0.35A	18.0V @ 0.7A								
	F48-250	FS48-250		48.0V CT @ 0.25A	24.0V @ 0.5A								
	F56-220	FS56-220		56.0V CT @ 0.22A	28.0V @ 0.44A								
	F120-100	FS120-100		120.0V CT @ 0.1A	60.0V @ 0.2A								
E	F10-2000	FS10-2000	20.0	10.0V CT @ 2.0A	5.0V @ 4.0A	1¹⁵⁄₁₆	1⅞	2¼	1½	0.30	0.40	1.60	0.80
	F12-1600	FS12-1600		12.6V CT @ 1.6A	6.3V @ 3.2A								
	F16-1250	FS16-1250		16.0V CT @ 1.25A	8.0V @ 2.5A								
	F20-1000	FS20-1000		20.0V CT @ 1.0A	10.0V @ 2.0A								
	F24-800	FS24-800		24.0V CT @ 0.8A	12.0V @ 1.6A								
	F28-700	FS28-700		28.0V CT @ 0.7A	14.0V @ 1.4A								
	F36-550	FS36-550		36.0V CT @ 0.55A	18.0V @ 1.1A								
	F48-400	FS48-400		48.0V CT @ 0.4A	24.0V @ 0.8A								
	F56-350	FS56-350		56.0V CT @ 0.35A	28.0V @ 0.7A								
	F120-160	FS120-160		120.0V CT @ 0.16A	60.0V @ 0.32A								

CT = Center Tap

Power Transformers

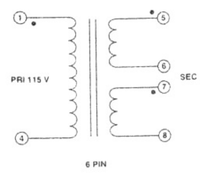
Section	Single Primary 6 Pin	Dual Primary 8 Pin	VA	Secondary Series	Secondary Parallel	Dimensions H	W	L	ML	A	B	C	Wt. Lbs.
A	F10-3600	FS10-3600	36.0	10.0V CT @ 3.6A	5.0V @ 7.2A	1 1/16	2 9/16	2 1/8	*	0.40	0.40	1.850	1.1
	F12-2850	FS12-2850		12.6V CT @ 2.85A	6.3V @ 5.7A								
	F16-2250	FS16-2250		16.0V CT @ 2.25A	8.0V @ 4.5A								
	F20-1800	FS20-1800		20.0V CT @ 1.8A	10.0V @ 3.6A								
	F24-1500	FS24-1500		24.0V CT @ 1.5A	12.0V @ 3.0A								
	F28-1300	FS28-1300		28.0V CT @ 1.3A	14.0V @ 2.6A								
	F36-1000	FS36-1000		36.0V CT @ 1.0A	18.0V @ 2.0A								
	F48-750	FS48-750		48.0V CT @ 0.75A	24.0V @ 1.5A								
	F56-650	FS56-650		56.0V CT @ 0.65A	28.0V @ 1.3A								
	F120-300	FS120-300		120.0V CT @ 0.3A	60.0V @ 0.6A								

** 36 VA size has 4 mtg. holes on 2 3/16 x 1 1/4 centers. CT = Center Tap*

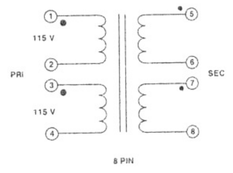
:: Outline Dimensions

Technical Notes

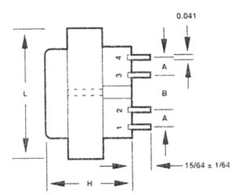
1. Hi-pot tested at 2,500 VRMS.
2. PC terminal pin spacing for accurate placement.
3. 115 V connect primary in parallel.
   230 V connect primary in series.
4. **Series Connections:** *Primary* - Input 1 & 4
   Connect 2 & 3
   Secondary - Input 5 & 8
   Connect 6 & 7
5. **Parallel Connections:** *Primary* - Input 1 & 2
   Connect 1 & 3. 2 & 4
   Secondary - Input 5 & 8
   Connect 5 & 7, 6 & 8
6. For single primary, omit pins 2 and 3.

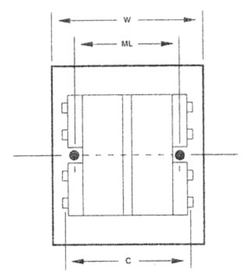


6 PIN



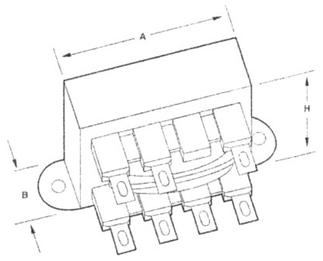
8 PIN





Power Transformers

UL Recognized



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The Triad Quick Pack small power transformer series offers a significant reduction in size and weight for a given VA rating. These transformers are available in six sizes for a wide variety of applications. They are bobbin wound for reduced size and small operating space. Split bobbin nonconcentric winding eliminates costly electrostatic shielding. Termination is suitable for quick connects or soldering.

::

Primary: 115 V, 115/230 V, 50/60 Hz
VA Range: 2.4 to 100.0
Output Rating Range: 10.0 V CT to 120.0 V CT

::

Section	Single Primary 115 V	Dual Primary 115/230 V	VA	Output Rating	Dimensions L	W	H	A	B	ML	Wt. Lbs.
A	F3-10	•	2.4	10.0V CT @ 0.25A	2 9/16	1 1/16	1 3/16	1 1/8	5/16	1 1/4	0.25
	F3-12	•		12.6V CT @ 0.2A							
	F3-16	•		16.0V CT @ 0.15A							
	F3-20	•		20.0V CT @ 0.12A							
	F3-24	•		24.0V CT @ 0.1A							
	F3-28	•		28.0V CT @ 0.085A							
	F3-36	•		36.0V CT @ 0.065A							
	F3-48	•		48.0V CT @ 0.05A							
	F3-56	•		56.0V CT @ 0.045A							
	F3-120	•		120.0V CT @ 0.02A							
B	F4-10	FD4-10	6.0	10.0V CT @ 0.6A	2 5/8	1 1/4	1 5/8	1 11/16	1/16	2	0.44
	F4-12	FD4-12		12.6V CT @ 0.5A							
	F4-16	FD4-16		16.0V CT @ 0.4A							
	F4-20	FD4-20		20.0V CT @ 0.3A							
	F4-24	FD4-24		24.0V CT @ 0.25A							
	F4-28	FD4-28		28.0V CT @ 0.2A							
	F4-36	FD4-36		36.0V CT @ 0.17A							
	F4-48	FD4-48		48.0V CT @ 0.125A							
	F4-56	FD4-56		56.0V CT @ 0.11A							
	F4-120	FD4-120		120.0V CT @ 0.05A							
C	F5-10	FD5-10	12.0	10.0V CT @ 1.2A	2 9/16	1 3/8	1 5/8	1 11/16	1/16	2 5/8	0.70
	F5-12	FD5-12		12.6V CT @ 1.0A							
	F5-16	FD5-16		16.0V CT @ 0.8A							
	F5-20	FD5-20		20.0V CT @ 0.6A							
	F5-24	FD5-24		24.0V CT @ 0.5A							
	F5-28	FD5-28		28.0V CT @ 0.42A							
	F5-36	FD5-36		36.0V CT @ 0.35A							
	F5-48	FD5-48		48.0V CT @ 0.25A							
	F5-56	FD5-56		56.0V CT @ 0.22A							
	F5-120	FD5-120		120.0V CT @ 0.1A							
D	F6-10	FD6-10	30.0	10.0V CT @ 3.0A	3 1/4	1 13/16	1 15/16	2 1/16	1 1/16	2 13/16	1.10
	F6-12	FD6-12		12.6V CT @ 2.5A							
	F6-16	FD6-16		16.0V CT @ 2.0A							
	F6-20	FD6-20		20.0V CT @ 1.5A							
	F6-24	FD6-24		24.0V CT @ 1.25A							
	F6-28	FD6-28		28.0V CT @ 1.1A							
	F6-36	FD6-36		36.0V CT @ 0.85A							
	F6-48	FD6-48		48.0V CT @ 0.63A							
	F6-56	FD6-56		56.0V CT @ 0.54A							
	F6-120	FD6-120		120.0V CT @ 0.25A							
E	F7-10	FD7-10	56.0	10.0V CT @ 5.0A	3 13/16	1 13/16	2 1/4	2 13/16	1 1/16	3 1/8	1.70
	F7-12	FD7-12		12.6V CT @ 4.0A							
	F7-16	FD7-16		16.0V CT @ 3.5A							
	F7-20	FD7-20		20.0V CT @ 2.8A							
	F7-24	FD7-24		24.0V CT @ 2.4A							
	F7-28	FD7-28		28.0V CT @ 2.0A							
	F7-36	FD7-36		36.0V CT @ 1.5A							
	F7-48	FD7-48		48.0V CT @ 1.2A							
	F7-56	FD7-56		56.0V CT @ 1.0A							
	F7-120	FD7-120		120.0V CT @ 0.5A							

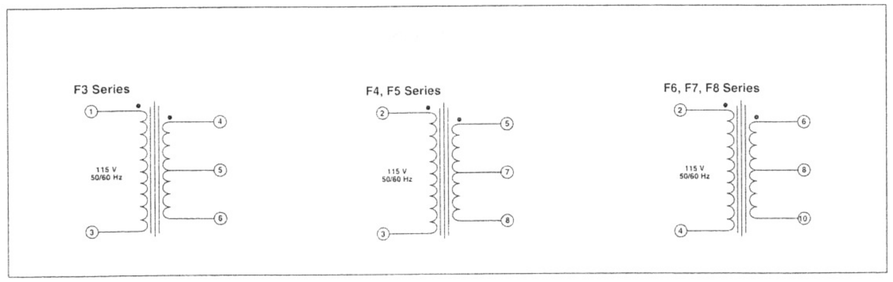
CT = Center Tap Mounting hole size: 3/16"

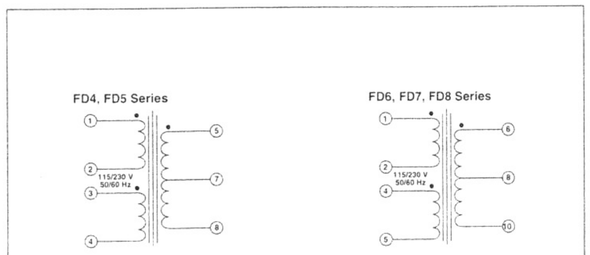
Section	Single Primary 115 V	Dual Primary 115/230 V	VA	Output Rating	Dimensions L	W	H	A	B	ML	Wt. Lbs.
A	F8-10	FD8-10	100.0	10.0V CT @10.0A	4 1/32	2 1/4	2 9/16	3 1/16	1 1/16	3 9/16	2.75
	F8-12	FD8-12		12.6V CT @ 8.0A							
	F8-16	FD8-16		16.0V CT @ 6.25A							
	F8-20	FD8-20		20.0V CT @ 5.0A							
	F8-24	FD8-24		24.0V CT @ 4.0A							
	F8-28	FD8-28		28.0V CT @ 3.6A							
	F8-36	FD8-36		36.0V CT @ 2.8A							
	F8-48	FD8-48		48.0V CT @ 2.0A							
	F8-56	FD8-56		56.0V CT @ 1.8A							
	F8-120	FD8-120		120.0V CT @ 0.85A							

CT = Center Tap *Mounting hole size: 3/16"*

Technical Notes

1. Hi-pot tested at 2,500 VRMS.
2. Class B insulation for maxumim temperature of 130°C.
3. Terminal size is .187" x .021".



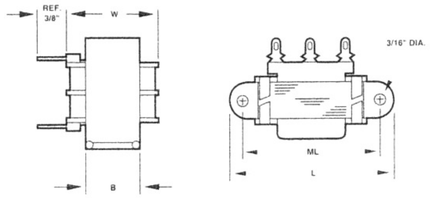


Series 230 V: Input 1 & 4
Connect 2 & 3

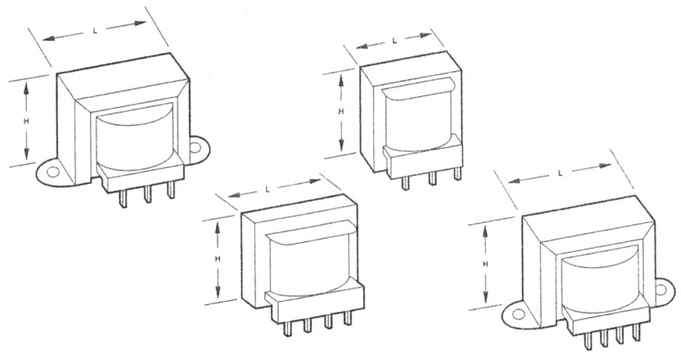
Parallel 115 V: Input 1 & 2
Connect 1 & 3, 2 & 4

Series 230 V: Input 1 & 5
Connect 2 & 4

Parallel 115 V: Input 1 & 2
Connect 1 & 4, 2 & 5



Power Transformers



Triad power transformers are offered in a wide selection of plug-in types to meet the needs of PC board and solid state power supply designs. These transformers can satisfy power as well as control and instrumentation applications. The transformers are available in single or dual primary and dual center tapped secondary configurations.

Primary: 115 V, 50/60 Hz

Section	Type No.	Figure	VA	Secondary Series	Secondary Parallel	Dimensions H	W	D	L	A	B	MW	Wt. Oz.
A	F-131P	B	1½	8.0V CT @ 0.188A	4.0V @ 0.376A	1 3/16	•	1 1/32	1 3/64	5/16	1	•	3.5
	F-139P			12.6V CT @ 0.12A	6.3V @ 0.24A								
	F-132P			15.0V CT @ 0.100A	7.5V @ 0.200A								
	F-150P			17.0V CT @ 0.085A	8.5V @ 0.170A								
	F-138P			25.2V CT @ 0.06A	12.6V @ 0.12A								
	F-133P			30.0V CT @ 0.050A	15.0V @ 0.100A								
	F-160P			34.0V CT @ 0.045A	17.0V @ 0.090A								
	F-137P			40.0V CT @ 0.038A	20.0V @ 0.076A								
	F-134P			54.0V CT @ 0.028A	27.0V @ 0.056A								
	F-135P			76.0V CT @ 0.020A	38.0V @ 0.040A								
	F-136P			116.0V CT @ 0.013A	58.0V @ 0.026A								
B	F-141XP	A	4½	8.0V CT @ 0.562A	4.0V @ 1.124A	1 7/16	2 3/8	1 1/4	1 3/64	1/32	1 1/32	2	7.5
	F-149XP			12.6V CT @ 0.35A	6.3V @ 0.70A								
	F-142XP			15.0V CT @ 0.300A	7.5V @ 0.600A								
	F-161XP			17.0V CT @ 0.264A	8.5V @ 0.528A								
	F-148XP			25.2V CT @ 0.178A	12.6V @ 0.356A								
	F-143XP			30.0V CT @ 0.150A	15.0V @ 0.300A								
	F-162XP			34.0V CT @ 0.132A	17.0V @ 0.264A								
	F-147XP			40.0V CT @ 0.112A	20.0V @ 0.224A								
	F-144XP			54.0V CT @ 0.084A	27.0V @ 0.168A								
	F-145XP			76.0V CT @ 0.060A	38.0V @ 0.120A								
	F-146XP			116.0V CT @ 0.033A	58.0V @ 0.066A								
C	F-151XP	A	7½	8.0V CT @ 0.940A	4.0V @ 1.88A	1 3/8	2 13/16	1 13/32	1 51/64	1/32	1 1/16	2 3/8	10.5
	F-159XP			12.6V CT @ 0.60A	6.3V @ 1.2A								
	F-152XP			15.0V CT @ 0.500A	7.5V @ 1.000A								
	F-163XP			17.0V CT @ 0.441A	8.5V @ 0.882A								
	F-158XP			25.2V CT @ 0.30A	12.6V @ 0.60A								
	F-153XP			30.0V CT @ 0.250A	15.0V @ 0.500A								
	F-164XP			34.0V CT @ 0.220A	17.0V @ 0.440A								
	F-157XP			40.0V CT @ 0.188A	20.0V @ 0.376A								
	F-154XP			54.0V CT @ 0.140A	27.0V @ 0.280A								
	F-155XP			76.0V CT @ 0.100A	38.0V @ 0.200A								
	F-156XP			116.0V CT @ 0.085A	58.0V @ 0.130A								

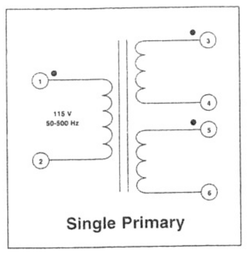
CT = Center Tap *Mounting hole size: Figure A = 9/16"*

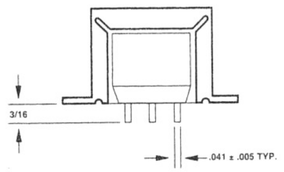
Section	Type No.	Figure	VA	Secondary No. 1	Secondary No. 2	Dimensions H	W	D	L	A	B	MW	Wt. Oz.
D	F-165P	C	1½	24.0V CT @ 0.025A	9.0VCT @ 0.100A	1 3/16	1 3/64	1 1/32	1 3/64	3/64	1	•	3.5
	F-167P			32.0V CT @ 0.020A	15.0V CT @ 0.060A								
E	F-168XP	D	4½	32.0V CT @ 0.050A	15.0V CT @ 0.195A	1 7/16	2 3/8	1 1/4	1 3/64	1/4	1 1/32	2	7.5
F	F-166XP	D	7½	24.0V CT @ 0.125A	9.0V CT @ 0.500A	1 3/8	2 13/16	1 13/32	1 51/64	1/4	1 1/16	2 3/8	10.5
	F-169XP			32.0V CT @ 0.100A	15.0V CT @ 0.287A								

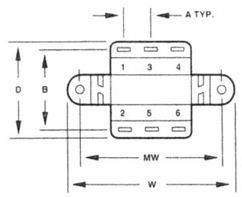
CT = Center Tap *Mounting hole size: Figure A = 9/16"*

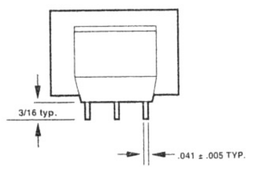
Technical Notes

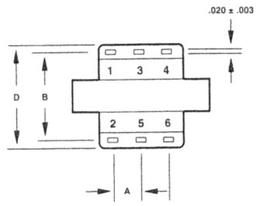
1. Hi-pot tested at 1,500 VRMS.

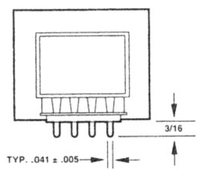


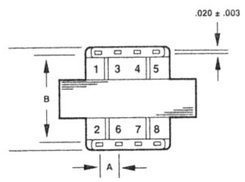


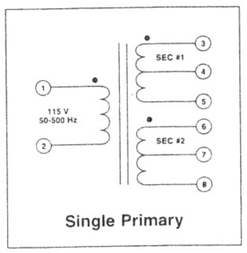


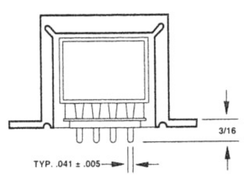


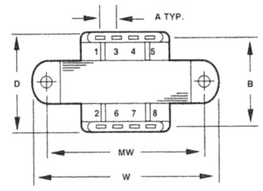




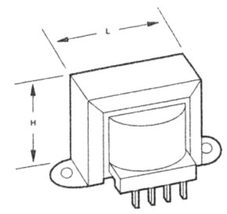


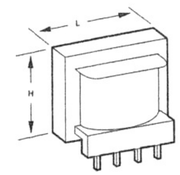






Power Transformers





Triad power transformers are offered in a wide selection of plug-in types to meet the needs of PC board and solid state power supply designs. These transformers can satisfy power as well as control and instrumentation applications. The transformers are available in a single or dual primary and dual center tapped secondary configurations.

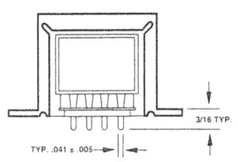
Primary: 115/230 V, 50/60 Hz

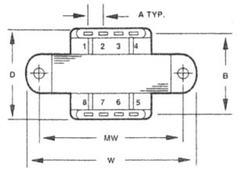
Section	Type No.	Figure	VA	Secondary		Dimensions							Wt. Oz.
				Series	Parallel	H	W	D	L	A	B	MW	
A	F-3132P F-333P F-367P	B	1½	15.0V CT @ 0.1A 30.0V CT @ 0.050A 230.0V CT @ 0.0065A	7.5V @ 0.2A 15.0V @ 0.100A 115.0V @ 0.013A	1 9/16	•	1⅛	•	13/64	1	•	4.0
B	F-348XP	A	4½	12.6V CT @ 0.350A	6.3V @ 0.700A	1⅜	2⅛	1¼	1⅜	¼	1 7/64	2	6.5
C	F-3142XP F-349XP F-350XP F-358XP F-3143XP F-363XP	A	4½	15.0V CT @ 0.3A 16.0V CT @ 0.280A 24.0V CT @ 0.180A 20.0V CT @ 0.225A 30.0V CT @ 0.15A 230.0V CT @ 0.020A	7.5V @ 0.6A 8.0V @ 0.560A 12.0V @ 0.360A 10.0V @ 0.450A 15.0V @ 0.3A 115.0V @ 0.040A	1 7/16	2⅛	1¼	1⅜	¼	1 7/64	2	6.5
D	F-3152XP F-3153XP	A	7½	15.0V CT @ 0.5A 30.0V CT @ 0.25A	7.5V @ 1.0A 15.0V @ 0.5A	1⅜	2 13/16	1 7/16	1⅞	¼	1 9/16	2⅛	11.0
E	F-359XP F-362XP F-365XP F-366XP F-369XP	A	10	24.0V CT @ 0.450A 20.0V CT @ 0.500A 12.6V CT @ 0.800A 16.0V CT @ 0.640A 230.0V CT @ 0.044A	12.0V @ 0.900A 10.0V @ 1.0A 6.3.0V @ 1.6A 8.0V @ 1.28A 115.0V @ 0.088A	1⅜	2 13/16	1 7/16	1⅞	¼	1 9/16	2⅛	11.0
F	F-370P F-371P F-372P F-373P F-374P F-375P F-376P F-377P F-378P F-379P	B	24	10.0V CT @ 2.4A 12.6V CT @ 2.0A 16.0V CT @ 1.5A 20.0V CT @ 1.2A 24.0V CT @ 1.0A 28.0V CT @ 0.8A 34.0V CT @ 0.7A 40.0V CT @ 0.6A 56.0V CT @ 0.42A 120.0V CT @ 0.2A	5.0V @ 4.8A 6.3V @ 4.0A 8.0V @ 3.0A 10.0V @ 2.4A 12.0V @ 2.0A 14.0V @ 1.6A 17.0V @ 1.4A 20.0V @ 1.2A 28.0V @ 0.84A 60.0V @ 0.4A	1⅜	•	2¼	1⅜	¼	2 7/64	•	13.3

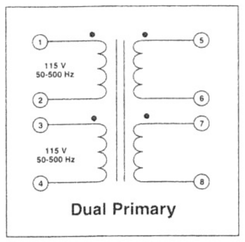
CT = Center Tap *Mounting hole size: Figure A = 9/16"*

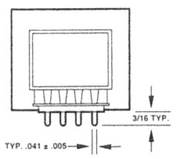
Technical Notes

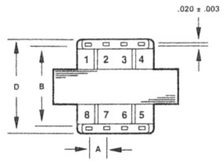
1. The transformers with dual primaries permit their use in equipment for sale in both foreign and domestic markets.
2. Hi-pot tested at 1,500 VRMS.





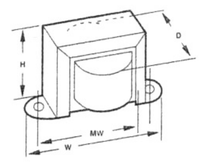


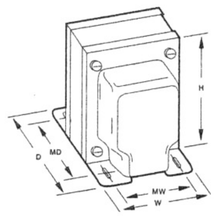


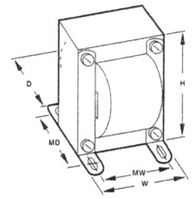


Triad Magnetics can be your total transformer source. Our flexible production lines are just as capable of handling a component order from 500 to 500,000. Call your Triad distributor for details.

Power Transformers







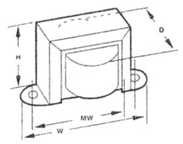
Triad offers a full choice of power supply transformers for direct use or in transformer, rectifier, or filter circuits. Other available secondary voltages include control, filament and low level signaling in standard values. The transformers are single primary with single and multiple secondaries in standard size and weight configurations.

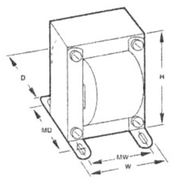
Primary: 115/230 V, 50/60 Hz

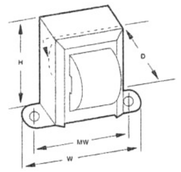
Single Secondary

	Type No.	Secondary Volts	Secondary Amps	Primary Voltage	RMS Test Voltage (Sec.)	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	F-1X#	2.5 CT	3.0	115	1,500	X	Leads	1⅛	2 9/16	1⅛	2⅛	•	0.68
	F-301X	2.5 CT	3.0	115/230	1,500	X	Leads	1⅛	2 9/16	1¼	2⅛	•	0.68
	F-6X#	2.5 CT	6.0	115	2,500	X	Leads	1 5/16	3 3/16	1¼	2 5/16	•	1.00
	F-3X#	2.5 CT	10.0	115	3,000	X	Leads	2 1/32	3¼	2⅛	3⅛	•	1.70
B	F-7X	5.0 CT	3.0	115	1,500	X	Leads	1 5/16	3 3/16	2	2 5/16	•	1.30
	F-8X	5.0 CT	6.0	115	1,500	X	Leads	2 3/32	3¼	2⅛	3⅛	•	1.70
	F-12X	5.0 CT	8.0	115	2,500	X	Leads	2 9/32	4	2¼	3 5/16	•	2.50
C	F-13X	6.3	0.6	115	1,500	X	Leads	1⅛	2⅛	1⅛	2	•	0.37
	F-313X	6.3	0.6	115/230	1,500	X	Leads	1⅛	2⅛	1⅛	2	•	0.37
	F-14X#	6.3 CT	1.2	115	2,500	X	Leads	1⅛	2 9/16	1⅛	2⅛	•	0.70
	F-314X	6.3 CT	1.2	115/230	2,500	X	Leads	1⅛	2 9/16	1⅛	2⅛	•	0.70
	F-16X	6.3 CT	3.0	115	2,500	X	Leads	1 5/16	3 3/16	2	2 5/16	•	1.30
	F-316X	6.3 CT	3.0	115/230	2,500	X	Leads	1 5/16	3 3/16	2	2 5/16	•	1.30
	F-43X#	6.3	4.0	115	1,500	X	Leads	1 5/16	3 3/16	2	2 5/16	•	1.25
	F-18X	6.3 CT	6.0	115	1,500	X	Leads	2 9/32	4	2¼	3 5/16	•	2.30
	F-318X	6.3 CT	6.0	115/230	1,500	X	Leads	2 9/32	4	2¼	3 5/16	•	2.30
	F-69X	6.3 CT	8.0	115	1,500	X	Leads	2 9/32	4	2¼	3 5/16	•	2.30
	F-21A	6.3 CT	10.0	115	1,500	A	1-Leads	3 9/32	2 17/32	3⅛	2¼	2	3.80
	F-22A	6.3 CT	20.0	115	2,000	A	2-Leads	3⅞	3 9/32	4⅛	2½	3	7.00
D	F-28U†	7.5 CT or 6.3 CT	25.0	115	3,000	U	Leads & Lugs	4⅜	3 1/16	3⅜	3	3 1/16	7.50
E	F-180X	10.0 CT	1.0	115	1,500	X	Leads	1 5/16	3 3/16	1¼	2 5/16	•	0.90
	F-31X	10.0 CT	3.0	115	2,000	X	Leads	2 1/32	3¼	2⅛	3⅛	•	1.70

 # 60 Hz †Tapped primary to produce lower voltages CT = Center Tap Mounting hole sizes: X = 3/16" U = 17/64 x 3/8" A = 1/8 x 3/16"







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Section	Type No.	Secondary Volts	Secondary Amps	Primary Voltage	RMS Test Voltage (Sec.)	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	F-96U	10.0 CT	6.000	115	1,500	U	Leads	3	2½	2¾	2	2⁵⁄₁₆	2.10
	F-97U	10.0 CT	8.000	115	1,500	U	Leads	3⁷⁄₁₆	2¹⁹⁄₁₆	3	2¼	2½	4.00
B	F-113X	12.0	0.150	115	1,500	X	Leads	1⅜	2⅜	1⅜	2	•	0.40
	F-216X#	12.0	0.350	115	1,500	X	Leads	1⅜	2⅜	1⅜	2	•	0.37
	F-114X	12.0	0.700	115	1,500	X	Leads	1⅜	2¹⁵⁄₁₆	1⅞	2⅛	•	0.80
	F-217X#	12.0	1.200	115	1,500	X	Leads	2	3¼	1¾	2¹³⁄₁₆	•	1.00
	F-218X#	12.0	2.000	115	1,500	X	Leads	2	3¼	1⅞	2⅞	•	1.13
	F-219X#	12.0	4.000	115	1,500	X	Leads	2⁹⁄₁₆	4	2¼	3⁵⁄₁₆	•	2.30
	F-220U#	12.0	6.000	115	1,500	U	Leads	3⁷⁄₁₆	2¹⁵⁄₁₆	2½	2¼	2⅛	3.50
	F-221U#	12.0	8.000	115	1,500	U	Leads	3¹³⁄₁₆	3⅛	2⅜	2½	2¼	4.00
C	F-29U†	12.0 CT or 11.0 CT or 10.0 CT	11.0	115	3,000	U	Leads	4⅞	3½	3⅜	2¾	2⁹⁄₁₆	6.50
D	F-70X	12.6 CT	1.000	115	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	1¼	2¹³⁄₁₆	•	1.30
	F-25X	12.6 CT	1.500	115	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-325X	12.6 CT	1.500	115/230	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-44X#	12.6 CT	2.000	115	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.25
	F-344X	12.6 CT	2.000	115/230	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.25
	F-26X#	12.6 CT	2.500	115	1,500	X	Leads	2³⁄₃₂	3¹¹⁄₁₆	2	3⅜	•	1.55
	F-326X	12.6 CT	2.500	115/230	1,500	X	Leads	2³⁄₃₂	3¹¹⁄₁₆	2	3⅜	•	1.55
	F-224X#	12.6	3.000	115	1,500	X	Leads	2¼	3¾	2⅛	3⅛	•	1.60
	F-225X#	12.6	4.000	115	1,500	X	Leads	2⅛	4	2⁵⁄₁₆	3⁹⁄₁₆	•	2.30
	F-3181U	12.6 CT	4.000	115/230	1,500	U	Leads	3⁵⁄₁₆	2⁹⁄₁₆	2⁹⁄₁₆	2	2	2.30
	F-182U	12.6 CT	6.000	115	1,500	U	Leads	3⅜	2¹³⁄₁₆	1⁷⁄₁₆	2¼	2⅜	3.80
	F-183U	12.6 CT	8.000	115	1,500	U	Leads	3¹³⁄₁₆	3⁵⁄₁₆	2¹³⁄₁₆	2½	2¼	5.00
E	F-112X	14.0 CT	0.250	115	1,500	X	Leads	1⅜	2⅜	1⅜	2	•	0.40
	F-3112X	14.0 CT	0.250	115/230	1,500	X	Leads	1⅜	2⅜	1½	2	•	0.30
	F-250X	14.0 CT	1.000	115	1,500	X	leads	1¹⁵⁄₁₆	3¼	1¾	2¹³⁄₁₆	•	1.20
	F-251X	14.0 CT	2.000	115	1,500	X	Leads	2¼	3¹³⁄₁₆	1¹⁵⁄₁₆	3⅛	•	1.50
	F-252U	14.0 CT	4.000	115	1,500	U	Leads	3	2½	2⁷⁄₁₆	2	2¼	3.00
	F-253U	14.0 CT	6.000	115	1,500	U	Leads	3⅞	2¹³⁄₁₆	2⅞	2¼	2⅛	4.00
F	F-254X	20.0 CT	1.000	115	1,500	X	Leads	2¼	3¹³⁄₁₆	1¹³⁄₁₆	3⅛	•	1.50
	F-255X	20.0 CT	2.000	115	1,500	X	Leads	2⁹⁄₁₆	4	2¼	3⁹⁄₁₆	•	2.50
	F-256U	20.0 CT	4.000	115	1,500	U	Leads	3⅛	2¹³⁄₁₆	2⅞	2⅜	•	4.00
	F-257U	20.0 CT	6.000	115	1,500	U	Leads	3¼	3⅛	3⅛	2½	2⅛	5.70
	F-258U	20.0 CT	8.000	115	1,500	U	Leads	3¼	3⅛	3½	2½	2⅞	6.40
	F-259U	20.0 CT	10.000	115	1,500	U	Leads	4⅛	3⁷⁄₁₆	3½	2¾	2¾	7.40
G	F-115X	24.0 CT	0.085	115	1,500	X	Leads	1⁵⁄₁₆	2⁵⁄₁₆	1⅜	1¾	•	0.30
	F-3115X	24.0 CT	0.085	115/230	1,500	X	Leads	1⁵⁄₁₆	2⁵⁄₁₆	1⅜	1¾	•	0.30
	F-116X	24.0 CT	0.200	115	1,500	X	Leads	1⅜	2⅜	1½	2	•	0.45
	F-3116X	24.0 CT	0.200	115/230	1,500	X	Leads	1⅜	2⅜	1½	2	•	0.45
	F-117X	24.0 CT	0.400	115	1,500	X	Leads	1⅜	2¹⁵⁄₁₆	1⅜	2⅜	•	0.80
	F-3117X	24.0 CT	0.400	115/230	1,500	X	Leads	1⅜	2¹⁵⁄₁₆	1½	2⅜	•	0.75
	F-118X	24.0 CT	0.700	115	1,500	X	Leads	2	3¼	2	2¹³⁄₁₆	•	1.30
	F-3118X	24.0 CT	0.700	115/230	1,500	X	Leads	2	3¼	2	2¹³⁄₁₆	•	1.30
	F-45X#	24.0 CT	1.000	115	1,500	X	Leads	1¹⁵⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-345X	24.0 CT	1.000	115/230	1,500	X	Leads	1¹⁵⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-46X#	24.0	1.000	115	1,500	X	Leads	1¹⁵⁄₁₆	3¼	2⅛	2¹³⁄₁₆	•	1.40
	F-229X#	24.0	2.000	115	1,500	X	Leads	2⁹⁄₁₆	4	2	3⁵⁄₁₆	•	2.30
	F-192X	24.0 CT	2.000	115	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⁹⁄₁₆	•	2.30
	F-193U	24.0 CT	4.000	115	1,500	U	Leads	2¹⁵⁄₁₆	3⅛	2¹³⁄₁₆	2½	2⅛	4.00
	F-260U	24.0 CT	6.000	115	1,500	U	Leads	3¼	3⅛	3½	2½	2⅞	6.40
	F-261U	24.0 CT	8.000	115	1,500	U	Leads	4⅛	3⁷⁄₁₆	3½	2¾	2¾	7.40
	F-401U	24.0 CT	10.000	115	1,500	U	Leads	4⅛	3⁷⁄₁₆	3¾	2¾	3	8.00
	F-226U#	24.0 CT	12.000	115	1,500	U	Leads	4⁹⁄₁₆	3¾	4⅛	3	3¼	10.40
	F-1000U	24.0 CT	21.000	115/230	1,500	U	Leads	4⁹⁄₁₆	3¾	4⅛	3	3¼	10.40

 # 60 Hz †Tapped primary to produce lower voltages CT = Center Tap Mounting hole sizes: U = ¹³⁄₆₄ x ⅜" X = ⅜₁₆"

:: Single Secondary Continued

Section	Type No.	Secondary Volts	Secondary Amps	Primary Voltage	RMS Test Voltage (Sec.)	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	F-57X	25.2 CT	1.000	117	1,500	X	Leads	1¹³⁄₁₆	3⅜	2	2¹³⁄₁₆	•	1.50
	F-357X	25.2 CT	1.000	115/230	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.50
	F-41X#	25.2 CT	2.000	115	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.20
	F-341X	25.2 CT	2.000	115/230	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.20
	F-56X	25.2 CT	2.800	115	1,500	X	Leads	2²³⁄₃₂	4	2¼	3⅜	•	2.50
B	F-119X	26.8 CT	0.150	115	1,500	X	Leads	1⅜	2⅜	1½	2	•	0.45
	F-40X#	26.8 CT	1.000	115	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-340X	26.8 CT	1.000	115/230	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-55X	26.8 CT	1.700	115	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.30
	F-355X	26.8 CT	1.700	115/230	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.30
C	F-122X	28.0 CT	0.175	115	1,500	X	Leads	1⅜	2⅜	1½	2	•	0.35
	F-124X	28.0 CT	0.800	115	1,500	X	Leads	1¹³⁄₁₆	3¼	2	2¹³⁄₁₆	•	1.00
	F-184X	28.0 CT	1.000	115	1,500	X	Leads	2⁵⁄₁₆	3¹¹⁄₁₆	2¼	3⅛	•	1.40
	F-3185U	28.0 CT	2.000	115/230	1,500	X	Leads	3⁵⁄₁₆	2½	2⁷⁄₁₆	2	2¼	2.90
	F-187U	28.0 CT	4.000	115	1,500	U	Leads	3½	2⅞	3⁵⁄₁₆	2¼	2¼	5.30
D	F-188X	35.0 CT	0.100	115	1,500	X	Leads	1⅜	2¹³⁄₁₆	1⁷⁄₁₆	2⅜	•	0.35
	F-228X#	35.0 CT	0.300	115	1,500	X	Leads	1⅜	2¹³⁄₁₆	1⅜	2⅜	•	0.60
	F-189X	35.0 CT	0.500	115	1,500	X	Leads	2⁵⁄₁₆	3¹¹⁄₁₆	1¹⁵⁄₁₆	3⅛	•	1.00
	F-54X	35.0 CT	1.500	115	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.20
	F-354X	35.0 CT	1.500	115/230	1,500	X	Leads	2¹⁹⁄₃₂	4	2¼	3⅜	•	2.20
	F-191U	35.0 CT	4.000	115	1,500	U	Leads	3¹⁵⁄₁₆	3⁹⁄₁₆	3⁹⁄₁₆	2¾	2½	6.00
	F-268U	35.0 CT	8.000	115	1,500	U	Leads	4½	3¾	4¼	3	3¼	11.00
E	F-270X	40.0 CT	1.000	115	1,500	X	Leads	2⁹⁄₁₆	4	2¼	3⅜	•	2.60
	F-271U	40.0 CT	2.000	115	1,500	U	Leads	3⅜	2¹³⁄₁₆	2⅞	2¼	2⅜	4.00
	F-272U	40.0 CT	4.000	115	1,500	U	Leads	3¾	3¾	3½	2½	2⅞	6.40
	F-273U	40.0 CT	6.000	115	1,500	U	Leads	4½	3¾	4	3	3	10.00
	F-275U	40.0 CT	10.000	115	1,500	U	Leads	5⅜	4⅜	4½	3½	3⅜	14.50
F	F-59X	60.0 CT	0.400	115	1,500	X	Leads	1¹³⁄₁₆	3⁵⁄₁₆	2	2¹³⁄₁₆	•	1.30
	F-279U	60.0 CT	1.000	115	1,500	U	Leads	3	2½	2⅝	2	2⅜	3.40
	F-280U	60.0 CT	2.000	115	1,500	U	Leads	3¾	3¾	3⅜	2½	2⅜	5.60
	F-282U	60.0 CT	6.000	115	1,500	U	Leads	5¼	4⅜	4⅛	3½	2⅞	12.50

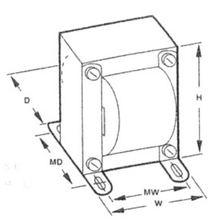
 # 60 Hz CT = Center Tap Mounting hole sizes: X = ⅜₁₆" U = ¹³⁄₆₄ x ⅜"

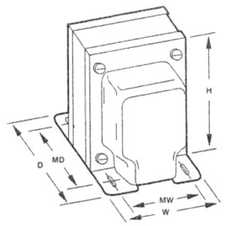
:: Multiple Secondary

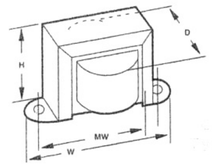
Section	Type No.	Secondary Volts	Secondary Amps	Primary Voltage	RMS Test Voltage (Sec.)	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
G	F-235Z#	12.0 CT	0.250	115	1,500	Z	Lugs	2	2⅜	1⁷⁄₁₆	2	•	0.6
		12.0 CT	0.250										
	F-236Z#	12.0 CT	0.500	115	1,500	Z	Lugs	2⁵⁄₁₆	2⅞	1⅜	2⅜	•	0.9
		12.0 CT	0.500										
	F-237Z#	12.0 CT	1.000	115	1,500	Z	Lugs	2⅜	2¹³⁄₁₆	2¹⁄₁₆	2⅜	•	1.1
		12.0 CT	1.000										
H	F-241U#*f*	18.0 CT	1.000	115	1,500	U	Lugs	2½	3	2½	2½	2	2.2
		18.0 CT	1.000										
	F-243U#*f*	18.0 CT	4.000	115	1,500	U	Lugs	3½	4⅛	3¼	3⁷⁄₁₆	2¼	5.2
		18.0 CT	4.000										
	F-244U#*f*	18.0 CT	8.000	115	1,500	U	Lugs	3¾	4½	4	3¾	2¾	8.3
		18.0 CT	8.000										
I	F-195X	32.0 CT	0.250	115	1,500	X	Leads	2¼	3¾	1⅞	3⅛	•	1.3
		15.5 CT	0.750										
J	F-196U	32.0 CT	1.000	115	1,500	U	Leads	3⅜	2¹³⁄₁₆	2⅝	2¼	2¼	4.0
		15.5 CT	2.000										
K	F-197U	32.0 CT	1.000	115	1,500	U	Leads	3¾	3⅜	2⁹⁄₁₆	2½	2¼	4.7
		15.0 CT	4.0										
L	F-198U	32.0 CT	1.000	115	1,500	U	Leads	3¾	3⅜	3⁵⁄₁₆	2½	2¾	6.2
		15.0 CT	6.000										

f Wingdings may be connected in series to obtain their combined voltage when properly phased. Current will be equal to the current of the lowest winding. Example: Two 6.3 V windings @ 2A in series would be 12.6 V @ 2A. Wingdings may also be connected in parallel to obtain combined current. Example: Two 6.3 V windings @ 2A in parallel would be 6.3 V @ 4A. # 60 Hz CT = Center Tap Mounting hole sizes X = ⅜₁₆" U = ¹³⁄₆₄ x ⅜" Z = ³⁄₁₆"

Power Transformers







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Triad chassis mount power transformers provide maximum performance when integrated into full wave center tap or bridge type circuits with silicon or selenium rectifiers. The secondary voltages are selected by primary taps. The secondaries of the Series F-90 transformers may be connected to provide a wide variety of output voltages (see Technical Notes). The Series F-90 transformers are designed for use with silicon diode rectifiers to supply the DC voltages for transistors in their various applications. They are intended for use with full wave center tap or bridge rectifiers, but may be used with voltage doubler circuits at one-half of the rated current.

::

Primary: 115 V, 230 V, 50/60 Hz
Secondary AC: F-90 Series - 14 to 40 (FWCT)
F-90 Series - 7 to 30 (FWB)

::

Section	Type No.	Primary Voltage	Secondary AC Volts	Secondary AC Amps	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. lbs.
A	**F-360U**	115/230	0-6.5/13/19.5/26	3.0	U	Leads	3⅜	2 13/16	2¼	2¼	2 5/16	3.50
B	**F-361U**	115/230	0-24/27/30/33/36	3.0	U	Leads	3¾	3⅜	3¼	2½	2⅝	5.65

Mounting hole sizes: U = 13/64 x ⅜"

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Section	Type No.	Primary Volts	Secondary AC Volts	*DC Amps	Case Type	Connections	Case Dimensions H	Case Dimensions W	Case Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	F-94X	115†	10-20 CT-40 CT	0.035	X	Leads	1⅜	2⅛	1⅜	2	•	0.50
D	F-90X	115†	10-20 CT-40 CT	0.1	X	Leads	1⅜	2 1/16	1⅜	2⅛	•	0.70
E	F-91X	115†	10-20 CT-40 CT	0.3	X	Leads	2 9/32	3 1/16	2	3⅛	•	1.50
F	F-93X	115†	10-20 CT-40 CT	0.75	X	Leads	2 9/32	4	2¼	3 9/16	•	2.40
G	F-92A	115†	10-20 CT-40 CT	1.0	A	Leads	3 9/16	2 13/32	3	2	2 1/16	3.25

†Tapped primary to produce lower voltages CT = Center Tap Mounting hole sizes: X = 7/16" A = ⅜ x 13/64"
See Technical Notes below for voltages selected by various combinations of primary tap interconnections.
**DC amp rating with a full wave bridge rectifier hi-pot tested at 1,500 VRMS*

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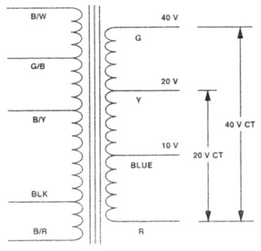
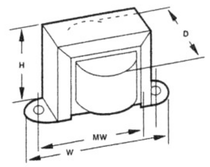
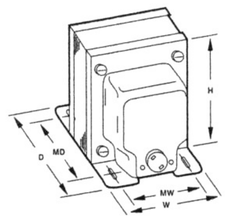
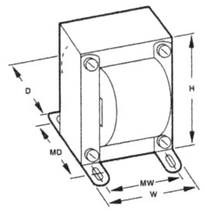
Primary 115 Volts Lead	Lead	Secondary Leads	Green Red	Leads	Green Blue	Leads	Yellow Red	Leads	Blue Red
Black/Yellow	Black	40V CT Yellow		30.0V		20V CT Blue		10.0V	
Black/Yellow	Black/Red	38V CT Yellow		28.5V		19V CT Blue		9.5V	
Black/Green	Black	34V CT Yellow		25.5V		17V CT Blue		8.5V	
Black/Green	Black/Red	32V CT Yellow		24.0V		16V CT Blue		8.0V	
Black/White	Black	30V CT Yellow		22.5V		15V CT Blue		7.5V	
Black/White	Black/Red	28V CT Yellow		21.0V		14V CT Blue		7.0V	



Power Transformers







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Triad autotransformers are single winding transformers in which the primary coil is a fraction of the entire winding for voltage step-up or the secondary coil is a fraction of the entire winding for voltage step-down (see Technical Notes for an equivalent circuit diagram). In ordinary double wound power transformers, the primary and secondary are isolated and all the power is transferred by induction. In auto-transformers, part of the power is transferred conductively through the windings. Triad autotransformers come in a variety of configurations, case types and output watts (VA) ratings in excess of 2,000 watts. A universal isolation/autotransformer/voltage control model is available with up to a 4,000 output watts rating when operated as an autotransformer.

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See Technical Notes

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Section	Type No.	VA	Primary Voltage	Secondary Volts ±5%	Secondary RMS Amps	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	**N-1X**	50	230	115	0.435	X (1)	Leads	2 9/32	3 1/16	2	3¼	•	1.5
B	**N-3M**	85	230	115	0.74	M (3)	6' Cord, Plug & Socket	3 9/32	2 13/32	2⅞	2¼	1⅞	3.0
	N-3MGΔ	85	230	115	0.74	M (3)	6' Cord, Plug & Socket	3 9/32	2 13/32	3½	2¼	2⅝	3.0
C	**N-2X**	100	230	115	0.87	X (1)	Leads	2⅝	4	2 1/16	3-⅜	•	2.1
D	**N-150MG**	150	115	230	0.65	M (3)	6'-3 Wire Cord, Plug & Socket	3 9/32	2 13/32	3 5/16	2¼	2⅝	4.9
	F-302U#	150	277	115	1.30	U (2)	Leads	2 1/16	3⅛	2¼	2 1/16	2	2.9
	N-4M	150	230	115	1.30	M (3)	6' Cord, Plug & Socket	3 9/32	2 13/32	3⅛	2¼	2⅝	4.7
	N-4MGΔ	150	230	115	1.30	M (3)	6' Cord, Plug & Socket	3 9/32	2 13/32	4¼	2¼	2⅝	4.7

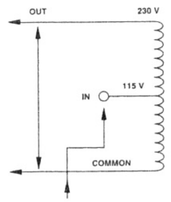
Δ Has 3-wire plug, cord and socket # 60 Hz
Mounting hole sizes: (1) = 5/16" (2) = 13/64 x ⅜" (3) = ⅜ x 5/16"

Section	Type No.	VA	Primary Volts	Secondary Volts ±5%	Secondary RMS Amps	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	**N-6U**	200	230	115	1.70	U (2)	Leads	3⅜	2 1⁵⁄₁₆	2 1⁹⁄₁₆	2¼	2¼	3.60
B	**N-250MGΔ**	250	115	230	1.10	M (3)	6'-3 Wire Cord, Plug & Socket	3⅜	3¼	3 1⁵⁄₁₆	2½	2 7⁄₁₆	6.60
C	**N-5M**	250	230	115	2.17	M (3)	6' Cord, Plug & Socket	3⅜	3 3⁄₃₂	4¼	2½	3	7.00
	N-5MGΔ	250	230	115	2.17	M (3)	6' Cord, Plug & Socket	3¾	3 3⁄₃₂	4 1⁵⁄₁₆	2½	3½	7.00
D	**N-500MGΔ**	500	115	230	2.20	M (3)	6'-3 Wire Cord, Plug & Socket	4⅜	3¾	4¾	3	3⅜	11.20
E	**N-7M**	600	230	115	5.22	M (3)	6' Cord, Plug & Socket	4⅜	3 1⁵⁄₁₆	5	3	3⅜	12.00
	N-7MGΔ	600	230	115	5.22	M (3)	6' Cord, Plug & Socket						
F	**N-1000MGΔ**	1,000	115	230	4.35	M (4)	6'-3 Wire Cord, Plug & Socket	5⅜	4½	5½	3½	4⅜	17.39
G	**N-9M**	1,250	230	115	10.85	M (4)	6' Cord, Plug & Socket	5 5⁄₁₆	4½	6	3½	4½	21.00
	N-9MGΔ	1,250	230	115	10.85	M (4)	6' Cord, Plug & Socket						
H	**N-11M**	2,000	230	115	17.40	M (4)	6' Cord, Plug & Socket	5⅞	4½	8¼	3½	6⅞	33.25
	N-11MGΔ	2,000	230	115	17.40	M (4)	6' Cord, Plug & Socket						

Δ Has 3-wire plug, cord and socket
Mounting hole sizes: (2) = 13⁄64 x ⅜" (3) = ⅜ x 9⁄16" (4) = 21⁄32 x 9⁄32"

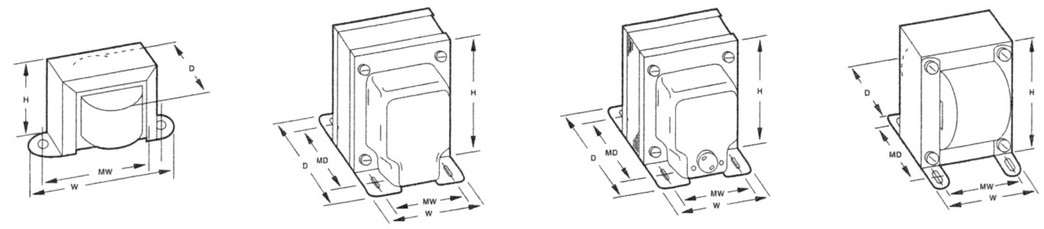
Technical Notes

1. Output wattage (VA) ratings 50 to 2,000 W.
2. Wide selection of case types, including 6' line cords, plugs, sockets and lugs.
3. All transformers are 50/60 Hz line frequency, except as noted.
4. Hi-pot tested at 1,500 VRMS.



(Single winding input providing input/output)

Power Transformers



Triad isolation transformers are power transformers for isolating equipment from direct connection to the power line. They are offered in a variety of voltages and case types. Triad isolation transformers are also offered in hospital type (designed with an MD suffix) which are designed and constructed to meet the low leakage current requirements for today's medical equipment. The transformers are constructed with nonconcentrically wound coils. The primary and secondary are wound on separate arbors, then assembled on a laminate core side-by-side separated by insulation. This prevents electrical connection, under normal or overload conditions, between the primary and secondary windings. These hospital type units are offered with a resettable circuit breaker, providing protection from overload and short circuit conditions.

Primary: 115/230 VAC, 50/60 Hz
Secondary: 115/230 VAC
Output Watts: 15 to 1,000 VA

Section	Type No.	VA	Primary Voltage	Secondary Volts ±5%	Secondary Amps	Case Type	Connections	Lead Holes Used	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	**N-48X**	15	115	115.0	0.13	X (1)	Leads	•	1 1⁵⁄₁₆	3 3⁄₁₆	2	2 1⁹⁄₁₆	•	1.35
B	**N-51X**	35	115	115.0	0.3	X (1)	Leads	•	2 9⁄₃₂	3 1⁵⁄₁₆	2⅛	3¼	•	1.70
C	**N-68X**	50	115/230§	115.0	0.435	X (1)	Leads	•	2 9⁄₃₂	3 1⁵⁄₁₆	2⅛	3¼	•	1.70
D	**N-53M**	85	115	115.0	0.74	M (3)	6' Cord, Plug & Socket	•	3 9⁄₃₂	2 3⁄₃₂	3¼	2¼	2⅛	4.70
	N-53MG√	85	115	115.0	0.74	M (3)	6' Cord, Plug & Socket	•	3 9⁄₃₂	2 3⁄₃₂	4⅛	2¼	2⅛	4.70
E	**N-76U***	100	115	115.0	0.86	U (2)	Leads	•	3 7⁄₁₆	2 1⁹⁄₁₆	3	2¼	2½	4.00
	N-77U*	100	115/230	115.0	0.86	U (2)	Leads	•	3 7⁄₁₆	2 1⁹⁄₁₆	3	2¼	2½	4.00
F	**N-54M**	150	115	115.0	1.3	M (3)	6' Cord, Plug & Socket	•	3¾	3 3⁄₃₂	4¼	2½	3	7.00
	N-54MG√	150	115	115.0	1.3	M (3)	6' Cord, Plug & Socket	•	3¾	3 3⁄₃₂	5 1⁵⁄₁₆	2½	3½	7.00
	N-73A	150	115	115/230§	0.65	A (3)	Leads	1	3¾	3 3⁄₃₂	3⅜	2½	2¼	7.00
	N-67A	150	115/230§	115.0	1.3	A (3)	Leads	2	3¾	3 3⁄₃₂	3⅞	2½	3	7.00
G	**N-55M**	250	115	115.0	2.17	M (3)	6' Cord, Plug & Socket	•	4⅜	3 1⁵⁄₁₆	5	3	3 1⁵⁄₁₆	11.00
	N-55MG√	250	115	115.0	2.17	M (3)	6' Cord, Plug & Socket	•	4⅜	3 1⁵⁄₁₆	5	3	3 1⁵⁄₁₆	11.00
	N-255MG√	250	230	115.0	2.17	M (3)	6' Cord, Plug & Socket	•	4⅜	3 1⁵⁄₁₆	5	3	3 1⁵⁄₁₆	11.00
	N-66A	250	115/230§	115.0	2.17	A (3)	Leads	2	4⅜	3 1⁵⁄₁₆	4⅜	3	3⅝	11.00
H	**N-57M**	500	115	115.0	4.35	M (5)	6' Cord, Plug & Socket	•	5 5⁄₁₆	4½	6¼	3½	5¼	23.75

*§ Split winding √With ground wire *Unit does not include static shield*
Mounting hole sizes: (1) = 9⁄16" (2) = 13⁄64 x ⅜" (3) = ⅜ x 9⁄16" (5) = ½ x ¼"

www.TriadMagnetics.com 22520 B Temescal Canyon Road, Corona, CA 92883 Phone 951-277-0757 FAX 951-277-2757

Section	Type No.	VA	Primary Voltage	Secondary Volts ±5%	Secondary Amps	Case Type	Connections	Lead Holes Used	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	**N-57MG√**	500	115	115.0	4.35	M (5)	6' Cord, Plug & Socket	•	5⁹⁄₁₆	4½	6¼	3½	5⅛	23.75
	N-257MG√	500	230	115.0	4.35	M (5)	6' Cord, Plug & Socket	•	5⁹⁄₁₆	4½	6¼	3½	5¼	23.75
B	**N-59M**	1,000	115	115.0	8.70	M (5)	6' Cord, Plug & Socket	•	5⁹⁄₁₆	4½	7⅛	3½	6	31.0
	N-59MG√	1,000	115	115.0	8.70	M (5)	6' Cord, Plug & Socket	•	5⁹⁄₁₆	4½	7⅛	3½	6	31.0
	N-259MG√	1,000	230	115.0	8.70	M (5)	6' Cord, Plug & Socket	•	5⁹⁄₁₆	4½	7⅛	3½	6	31.0

√With ground wire Mounting hole sizes: (5) = ½ x ¼"

Technical Notes

1. Line cord, plug and receptacle are U.L. listed and verified to meet federal specifications.
2. Connections are by leads, plugs and sockets.
3. Hi-pot tested at 1,500 VRMS.
4. All units have static shields, except those marked with an asterisk.

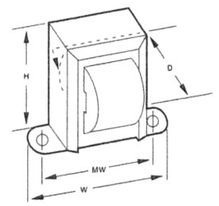
Section	Type No.	VA	Primary Voltage	Secondary Volts ±5%	Secondary RMS Amps	Case Type	Connections	Lead Holes Used	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	**N-90MD**	250	115	115.0	2.17	M (3)	6' Cord, Plug & Socket Circuit Breaker	•	4⅞	3⅞	6⅛	3	4¹⁵⁄₁₆	11.9
D	**N-92MD**	500	115	115.0	4.35	M (4)	6' Cord, Plug & Socket Circuit Breaker	•	5³¹⁄₃₂	4½	7	3½	5⅛	17.6

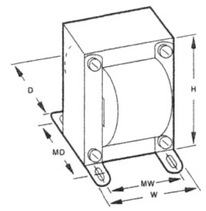
Mounting hole sizes: (3) = ⅜ x ⁹⁄₁₆" (4) = ²¹⁄₃₂ x ⁹⁄₃₂"

Leakage current from primary to secondary is rated at less than 50 micro-amps and is typically measured at less than 10 micro-amps.

When stock is a problem elsewhere, try us. We routinely have hundreds of thousands of completed standard units on hand. Call your nearest Triad distributor for a "stock status" on the industry's best -- Triad Transformers..

Power Transformers





Triad control transformers supply secondary voltages that are commonly utilized in various electronic, electro-magnetic and electrical control conditions. These include such applications as use with relays, solenoids, small motors, speed changers, pumps, heating elements, control valves for fluids and gases, fans and blowers, electronic tubes, automatic assembly equipment, recording devices, elevators, door openers, and low voltage lamps.

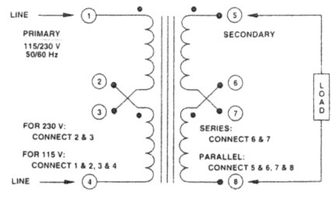
Primary: 115/230 VAC, 50/60 Hz
VA Range: 12 to 192
Secondary: 6/12/24 VAC

Section	Type No.	Secondaries Series	Secondaries Parallel	VA	Case Type	Connections	Dimensions H	Dimensions W	Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	**F-105Z**	12.0V CT @ 1.0A	6.0V @ 2.0A	12	Z	Lugs	2⅜	2⅞	1¼	2⅜	•	1.000
	F-211Z	48.0V CT @ 0.25A	24.0V @ 0.5A								•	0.678
B	**F-106Z**	12.0V CT @ 2.0A	6.0V @ 4.0A	24	Z	Lugs	2¼	3⅛	2	2¹³⁄₁₆	•	1.500
	F-212Z	48.0V CT @ 0.50A	24.0V @ 1.0A								•	1.050
C	**F-107Z**	24.0V CT @ 2.0A	12.0V @ 4.0A	48	Z	Lugs	3⅛	3⅜	2⅜	3⅛	•	2.500
	F-213Z	48.0V CT @ 1.0A	24.0V @ 2.0A								•	2.250
D	**F-398U**	24.0V CT @ 3.0A	12.0V @ 6.0A	72	U	Lugs	3¹³⁄₃₂	3¹⁵⁄₁₆	2¹⁵⁄₁₆	2¼	2¼	4.250
E	**F-108U**	24.0V CT @ 4.0A	12.0V @ 8.0A	96	U	Lugs	3¹³⁄₃₂	2¹⁵⁄₁₆	3⅜	2¼	2¼	4.250
	F-214U	48.0V CT @ 2.0A	24.0V @ 4.0A								2⅜	3.240
F	**F-399U**	24.0V CT @ 6.0A	12.0V @ 12.0A	144	U	Lugs	4¼	3⅜	3½	2½	2⅞	5.900
	F-400U	48.0V CT @ 3.0A	24.0V @ 6.0A									
G	**F-109U**	24.0V CT @ 8.0A	12.0V @ 16.0A	192	U	Lugs	4⁷⁄₁₆	3⁷⁄₁₆	3⁹⁄₁₆	2¼	3	8.00
	F-215U	48.0 V CT @ 4.0A	24.0V @ 8.0A				4⁹⁄₁₆	3⁷⁄₁₆	3¼	2¼	3	6.060

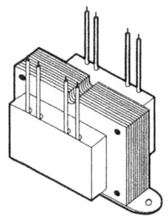
CT = Center Tap Mounting hole sizes: Z = ⅜" U = ¹³⁄₆₄ x ⅜"

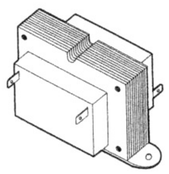
Technical Notes

1. Hi-pot tested at 1,500 VRMS.
2. Secondaries may be connected in series or parallel for expanded voltage and current ranges. See Control Transformer Connections diagram.
3. Transformer termination is solder lug.



Control Transformers





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Triad control transformers come with tamper resistant shrouds for safety and steel bracket welded to the bottom of the transformer for ease of mounting.

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Maximun Power: 40VA
Input (50/60 Hz): 120V, 240V, 120/208/240V, 120/240V, 208/240V
Output: 12V, 24V

:: Control Transformers

Type No.	Primaries	Secondary	VA	Connections	Dimensions (mm) H	W	D	Mounting Dimensions	Wt. Lbs.
TCT40-01E07AB	120V	24V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-01E07K	120V	24V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-02E07AB	240V	24V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-02E07K	240V	24V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-05E07AB	120/208/240	24V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-05E07K	120/208/240	24V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-06E07AB	120/240	24V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-06E07K	120/240	24V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-09E07AB	208/240	24V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-09E07K	208/240	24V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-03E07AB	120V	12V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-03E07K	120V	12V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-04E07AB	240V	12V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-04E07K	240V	12V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-07E07AB	120/208/240	12V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-07E07K	120/208/240	12V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-08E07AB	120/240	12V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-08E07K	120/240	12V	40	Leads	56.50	92.50	57.15	79.38	1.5
TCT40-10E07AB	208/240	12V	40	Lugs	56.50	92.50	57.15	79.38	1.5
TCT40-10E07K	208/240	12V	40	Leads	56.50	92.50	57.15	79.38	1.5

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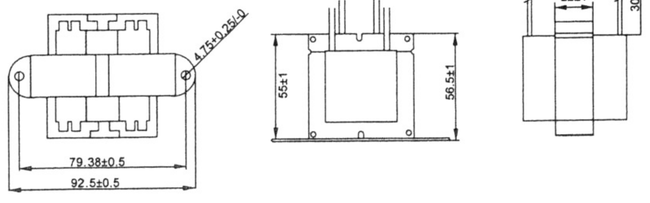
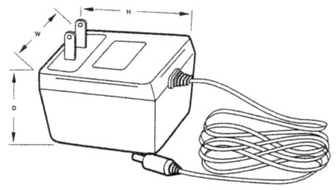
Technical Notes
[mm]



Wall Plug-Ins



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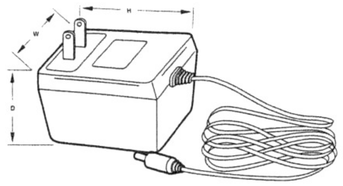
Triad prepackaged wall plug-in power supplies decrease product design time. These plug-in power sources eliminate the need for internal power supply cooling devices, thereby reducing the noise level, size and weight of the end product. In addition, these compact power sources keep heat away from sensitive circuits, and supply a safer lower output to the end product. Wall plug-in power sources are completely enclosed to prevent tampering. And since they carry many required agency listings, their use aids in gaining agency approvals. Offered in a wide range of popular voltages, the plug-in power sources are available in AC/DC unregulated models with generous six foot cord lengths. Available in 60 Hz only.

:: Wall Plug-Ins

Type No.	Input VAC	Input Watts	Output VDC	Output IDC (A)	Type	Dimensions (mm) H	W	D
WDU6-100	120	6.0	6.0	0.10	AC/DC Unreg.	56	43	37
WDU6-200	120	3.0	6.0	0.20	AC/DC Unreg.	60	43	39
WDU6-300	120	4.5	6.0	0.30	AC/DC Unreg.	60	43	39
WDU6-600	120	7.5	6.0	0.60	AC/DC Unreg.	70	50	41
WDU6-800	120	10.0	6.0	0.80	AC/DC Unreg.	70	50	41
WDU6-1000	120	12.0	6.0	1.00	AC/DC Unreg.	70	50	41
WDU6-1200	120	15.0	6.0	1.20	AC/DC Unreg.	70	50	41
WDU75-100	120	6.0	7.5	0.10	AC/DC Unreg.	56	43	37
WDU75-200	120	3.5	7.5	0.20	AC/DC Unreg.	60	43	39
WDU75-300	120	4.5	7.5	0.30	AC/DC Unreg.	60	43	39
WDU75-800	120	11.5	7.5	0.80	AC/DC Unreg.	70	50	41
WDU75-1000	120	15.0	7.5	1.00	AC/DC Unreg.	71	56	48
WDU9-100	120	2.3	9.0	0.10	AC/DC Unreg.	60	43	39
WDU9-300	120	5.0	9.0	0.30	AC/DC Unreg.	60	43	39
WDU9-500	120	18.5	9.0	0.50	AC/DC Unreg.	70	50	41
WDU9-1000	120	15.5	9.0	1.00	AC/DC Unreg.	80	60	48
WDU9-1200	120	18.5	9.0	1.20	AC/DC Unreg.	80	60	48
WDU9-2300	120	33.0	9.0	2.30	AC/DC Unreg.	85	68	55
WDU12-100	120	2.8	12.0	0.10	AC/DC Unreg.	60	43	39
WDU12-300	120	6.5	12.0	0.30	AC/DC Unreg.	70	50	41
WDU12-600	120	12.5	12.0	0.60	AC/DC Unreg.	80	60	48
WDU12-1200	120	23.5	12.0	1.20	AC/DC Unreg.	80	60	48
WDU12-1900	120	33.0	12.0	1.90	AC/DC Unreg.	85	68	55
WDU15-200	120	5.0	15.0	0.20	AC/DC Unreg.	60	43	39
WDU15-600	120	15.0	15.0	0.60	AC/DC Unreg.	80	60	48
WDU15-1000	120	24.0	15.0	1.00	AC/DC Unreg.	80	60	48
WDU15-1700	120	37.0	15.0	1.70	AC/DC Unreg.	85	68	55
WDU18-100	120	6.0	18.0	0.10	AC/DC Unreg.	56	43	37
WDU18-200	120	6.5	18.0	0.20	AC/DC Unreg.	70	50	41
WDU18-250	120	12.0	18.0	0.25	AC/DC Unreg.	64	51	41
WDU18-300	120	9.0	18.0	0.30	AC/DC Unreg.	70	50	41
WDU18-600	120	17.0	18.0	0.60	AC/DC Unreg.	80	60	48
WDU18-1000	120	27.5	18.0	1.00	AC/DC Unreg.	80	60	48
WDU18-1400	120	34.0	18.0	1.40	AC/DC Unreg.	85	68	55
WDU24-200	120	9.0	24.0	0.20	AC/DC Unreg.	60	43	39
WDU24-300	120	11.8	24.0	0.30	AC/DC Unreg.	70	50	41
WDU24-500	120	18.0	24.0	0.50	AC/DC Unreg.	80	60	48
WDU24-800	120	28.5	24.0	0.80	AC/DC Unreg.	80	60	48
WDU24-1200	120	38.0	24.0	1.20	AC/DC Unreg.	85	68	55

Note: Specifications subject to change without notice.

Wall Plug-Ins

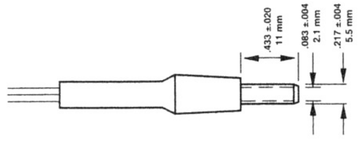


Triad prepackaged wall plug-in power supplies decrease product design time. These plug-in power sources eliminate the need for internal power supply cooling devices, thereby reducing the noise level, size and weight of the end product. In addition, these compact power sources keep heat away from sensitive circuits, and supply a safer lower output to the end product. Wall plug-in power sources are completely enclosed to prevent tampering. And since they carry many required agency listings, their use aids in gaining agency approvals. Offered in a wide range of popular voltages, the plug-in power sources are available in AC/AC unregulated models with generous six foot cord lengths. Available in 60 Hz only.

Type No.	Input		Output		Type	Dimensions (mm)		
	VAC	Watts	VAC	IAC (A)		H	W	D
WAU12-200	120	4.0	12.0	0.20	AC/AC Unreg.	60	43	39
WAU12-500	120	8.8	12.0	0.50	AC/AC Unreg.	70	50	41
WAU12-1000	120	17.0	12.0	1.00	AC/AC Unreg.	70	50	41
WAU12-1500	120	24.0	12.0	1.50	AC/AC Unreg.	80	60	48
WAU12-2000	120	33.0	12.0	2.00	AC/AC Unreg.	80	60	48
WAU12-2500	120	38.0	12.0	2.50	AC/AC Unreg.	85	68	55
WAU16-400	120	9.0	16.0	0.40	AC/AC Unreg.	70	50	41
WAU16-500	120	11.2	16.0	0.50	AC/AC Unreg.	80	60	48
WAU16-1000	120	21.5	16.0	1.00	AC/AC Unreg.	80	60	48
WAU16-2400	120	47.0	16.0	2.40	AC/AC Unreg.	85	68	55
WAU20-200	120	6.0	20.0	0.20	AC/AC Unreg.	70	50	41
WAU20-500	120	13.5	20.0	0.50	AC/AC Unreg.	80	60	48
WAU20-2000	120	48.0	20.0	2.00	AC/AC Unreg.	85	68	55
WAU24-200	120	7.2	24.0	0.20	AC/AC Unreg.	70	50	41
WAU24-450	120	15.0	24.0	0.45	AC/AC Unreg.	70	50	41
WAU24-750	120	23.5	24.0	0.75	AC/AC Unreg.	80	60	48
WAU24-1000	120	32.0	24.0	1.00	AC/AC Unreg.	80	60	48
WAU24-1800	120	52.2	24.0	1.80	AC/AC Unreg.	85	68	55

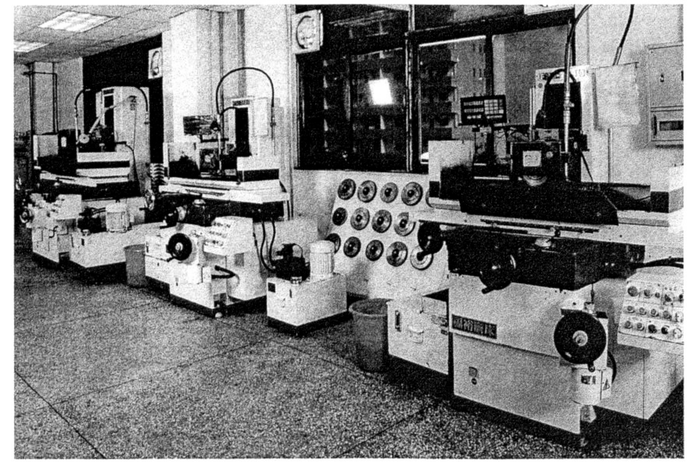
Note: Specifications subject to change without notice.

Technical Notes
1. Inside (tip) - positive (+), outside - negative (-)
2. Plug use on DC and AC models

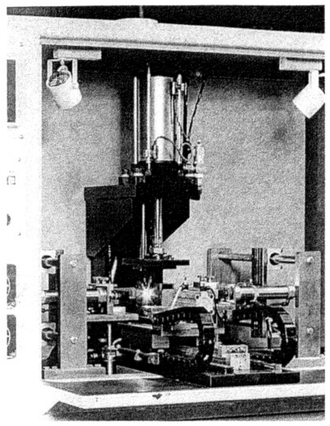


TRIAD MAGNETICS. COMMITTED TO EXCELLENCE.

Triad offers a broad off-the-shelf product line of popular transformers, autotransformers and inductors. If you have a power or filtering problem, our expert design engineers have probably already solved it for someone else with one of our thousands of standard part numbers. The company's advanced CAD and other computer systems also allow it to provide custom solutions, with rapid prototyping and testing too. Certification is available to UL and many other standards upon request.



Precision gapping machines ensure high performance and quality in all our magnetic components.

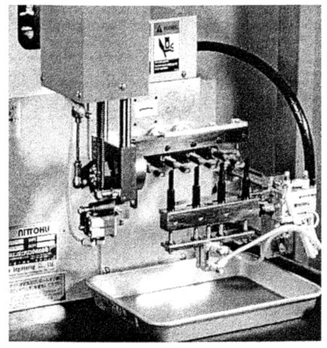


High-speed automated welding equipment for transformer cores provides economical production.

Triad's manufacturing facilities include state-of-the-art coil winding equipment, as well as ferrite gapping machines, lamination welding equipment and automated testing. The company's advanced cellular manufacturing system reduces material handling and process cycle times. Our Quality Management System relies on the latest statistical process control and continuous improvement techniques which ensure the highest product reliability and long-life.

Our customer service and technical support staff is ready to assist you promptly because we know your time is important. With one of the industry's broadest networks of manufacturers' representatives and distributors, Triad is also your local supplier just about everywhere in the world. That means there is plenty of standard product on the shelves, and it's available for overnight shipping, which gives you the flexibility to make fast decisions and rapid changes.

When you look at Triad's long record of innovation combined with its present capabilities, high performance products, commitment to excellence, quality, service and price, it all adds up to exceptional value. Triad is the magnetics technology partner that you can trust to help your company achieve a competitive advantage in today's fast-moving electronics industry.



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