PRODUCING HIGH QUALITY TRANSFORMERS FOR 105 YEARS

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THORDARSON MEISSNER

THORDARSON MEISSNER, INC.
537 EAST BROOKS AVE., #409
NORTH LAS VEGAS, NV 89030-3973
PH: 702-566-0800 - FX: 702-566-2080

CELEBRATING 120 YEARS OF GLOBAL TECHNOLOGY

After working tirelessly experimenting with combinations of steel and copper applying his knowledge of mathematics, Thordarson produced a device to control electrical force, making this source of energy adaptable for America's growing industrialization. He called this device a "transformer".

In 1895 Chester H. Throdarson founded Tohordarson Electric Manufacturing Company in Chicago, Illinois, becoming the first producer of industrial and commercial transformers. In its early years Thordardson patented more than 30 inventions in transformer design and manufacturing, including the still most popular form of laminations, the scrapless "E and I".

Thordarson Meissner, Inc. is very proud of the "quality" and "innovative" reputation that we have earned by meeting the ever-changing needs of our customers. Thordarson Meissner's goal is to do things right the first time to achieve higher levels of efficiency and quality performance. We have a Statistical Process Control (SPC) program in place and we are focusing on certification with International Standards Organization (ISO 9000) specifications in order to be recognized as your World Class Supplier.

Our designs range from the simplest of Filament transformer, to custom designs with tight tolerances required by the government, military, subcontractors, and manufacturers. Whether it is a simple or complex transformer, you will find high quality designed into every product.

In 1937, the Thordarson Creed reflected the sentiment: "It is the creed of every member if the Thordarson organization that its leadership shall never be impaired by any neglect of this perpetual rule to produce nothing but the best quality." The creed today reflects the same goal:

THORDARSON MEISSNER'S QUALITY CREED STATES:

"We Shall Strive For Excellence In All Endeavors. We Shall Set Our Goals To Achieve Total Customer Satisfaction And To Deliver Defect-Free Premium Value Products On Time With Service Second To None."

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THORDARSON MEISSNER®

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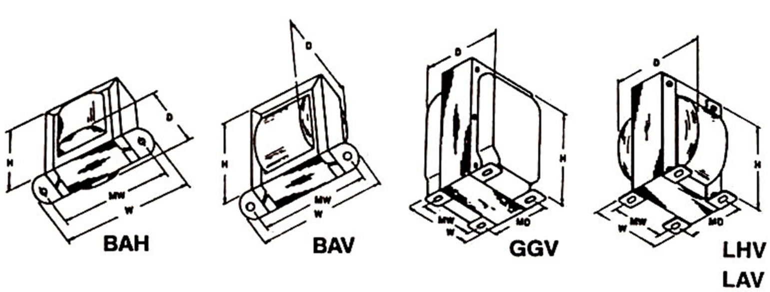
THORDARSON MEISSNER®

RECTIFIER, CONTROL AND FILAMENT TRANSFORMERS
50/60HZ WITH 2.5V TO 12V SECONDARIES @ 0.75VA TO 157.5VA

50/60 HZ. except •. All with lead terminations except for 21F45, 21F59, 21F61 with lugs.

SECT	Part Number	Secondary RMS Volts	Secondary RMS Amps.	Primary Volts	Insulation Test RMS Volts	Style	Case H	Case W	Case D	Mounting MW	Mounting MD	Wt. Lbs.
A	21F191	2.5CT	.3	117	1500	BAH	1¼	2⅛	1 5/16	1¾	---	0.3
	21F192	2.5	1.0	117	1500	BAH	1⅜	2⅜	1⅜	2	---	0.4
	21F34	2.5	1.5	117	2500	BAH	1⅝	2⅞	1½	2⅜	---	0.7
	21F120	2.5CT	3.0	115	1500	BAH	1⅝	2⅞	1¾	2⅜	---	0.7
	21F31	2.5CT	5.0	117	7500	BAV	2¾	3⅛	2⅛	2 13/16	---	1.5
	21F103	2.5CT	10.0	107/117	7500	BAV	3⅛	3⅝	2½	3⅛	---	2.5
B	21F94	5.0CT	3.0	115	2500	BAH	2	3¼	2⅛	2 13/16	---	1.4
	21F60	5.0CT	6.0	115	1500	BAH	2¼	3 11/16	2¼	3⅛	---	1.7
	21F105	5.0CT	6.0	107/117	2500	BAV	2¾	3⅛	2⅛	2 13/16	---	2.0
	21F13	5.0CT	10.0	117	2500	LAV	3⅛	2 9/16	3⅛	2	2⅝	3.5
	26F66	5.0CT	15.0	117	2500	LAV	3⅛	2½	3	2	2¼	3.0
	21F07A	5.0CT	29.0	117	2500	LAV	3⅞	3 3/16	3¼	2½	2½	5.9
C	26F73	6.3CT	.3	117	1500	BAH	1¼	2⅛	1⅜	3¼	---	0.3
	21F162	6.3CT	.6	117	1500	BAH	1⅜	2⅜	1 7/16	2	---	0.4
	21F143	6.3CT	1.0	117	1500	BAH	1⅝	2⅞	1⅝	2⅜	---	0.6
	21F09	6.3CT	1.2	117	2500	BAH	1⅝	2⅞	1⅝	2⅜	---	0.8
	21F212	6.3	1.2	117	2500	BAH	1⅝	2⅞	1½	2⅜	---	0.7
	26F60	6.3	1.2	117	7000	BAH	2	3¼	2¼	2 13/16	---	1.0
D	21F10	6.3CT	3.0	117	2500	BAH	2	3¼	2⅛	2 13/16	---	1.4
	21F204	6.3CT	5.0	115	1500	BAH	2⅜	3¾	2¼	3⅛	---	1.8
	#21F59	6.3CT	6.0	117	2500	LHV	3⅛	2 9/16	2 7/16	2	2	2.4
	21F72	6.3CT	6.0	107/117	2000	BAH	2⅜	3¾	2⅜	3⅛	---	2.0
	21F12	6.3CT	10.0	117	2500	LAV	3⅛	2½	2½	2	2¼	3.0
	#21F43	6.3CT	10.0	107/117	2500	LAV	3½	2⅞	2¾	2¼	2⅛	3.4
	#21F25	6.3CT	20.0	107/117	2500	LAV	4 9/16	3 13/16	3⅜	3	2⅜	6.7
E	#21F45	7.5CT	4.0	117	2500	LHV	3⅛	2 9/16	2 11/16	2	2⅛	2.7
	#21F62	7.5CT	8.0	117	2500	LAV	3 13/16	3 13/16	3	2½	2⅜	4.7
	21F111	7.5CT	21.0	107/117	2500	GGV	4⅝	3¾	4	3	2 13/16	8.0
F	21F205	10.0CT	1.0	117	1500	BAH	2	3¼	1⅝	2 13/16	---	0.9
	26F71	10.0CT	3.0	115	1500	BAH	2⅜	3¾	2¼	3⅛	---	1.6
	21F207	10.0CT	4.0	117	1500	BAH	2⅝	4	2¼	3 9/16	---	2.3
	#21F61	10.0CT	4.0	117	2500	LHV	3 7/16	2⅞	2 9/16	2¼	2	3.3
	21F18	10.0CT	5.0	117	2500	LAV	3 1/16	2 9/16	2½	2	2	2.5
	21F209	10.0CT	8.0	117	1500	LAV	3 7/16	2 13/16	3⅛	2¼	2½	4.1
	21F28	10.0CT	8.0	117	2500	LAV	3⅞	3 3/16	3⅜	2½	2⅝	4.9
	21F112	10.0CT	10.0	117	2000	GGV	3 13/16	3⅛	3 11/16	2½	2 7/16	5.2
	21F173	10.0CT	10.0	117	2000	LAV	4⅛	3½	3¼	2¾	2⅜	7.5
G	23V252	12.0	.15	117	1500	BAH	1¼	2 1/16	1¼	1¾	---	0.3
	23V253	12.0	.35	117	1500	BAH	1⅜	2⅜	1 7/16	2	---	0.4
	23V254	12.0	.70	117	1500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.6
	23V255	12.0	1.2	117	1500	BAH	2	3¼	1¾	2 13/16	---	0.9
	23V415	12.0	2.0	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.3
	23V416	12.0	4.0	117	1500	BAH	2⅝	4	2¼	3 9/16	---	2.3
	23V417	12.0	6.0	117	1500	LAV	3 7/16	2 13/16	2⅝	2¼	2⅛	3.4
	23V418	12.0	8.0	117	1500	LAV	3 13/16	3⅛	2¾	2½	2⅛	4.3

Has electrostatic shield.



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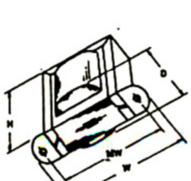
RECTIFIER, CONTROL & FILAMENT TRANSFORMERS
50/60HZ WITH 12.6V TO 24V SECONDARIES @ 2VA TO 288VA

50/60 HZ. except •. Lead wire terminations except 23V505 with lugs and dual secondary. (cont'd)

SECT	Part Number	Secondary RMS Volts	Secondary RMS Amps.	Primary Volts	Insulation Test RMS Volts	Style	Case H	Case W	Case D	Mounting MW	Mounting MD	Wt. Lbs.
A	21F52••	12.6	3.5	117	2500	BAH	3½	2⅞	3⅞	2¼	2⅝	5.0
		12.6	3.5	117							---	
	26F72	12.6CT	1.0	117	1500	BAH	2	3¼	1¾	2 13/16	---	0.9
	21F149	12.6CT	1.5	117	1500	BAH	2	3¼	2	2 13/16	---	1.0
	26F67	12.6CT	2.0	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.1
	21F201	12.6CT	2.0	230	1500	BAH	2	3¼	2⅛	2 13/16	---	1.8
	21F150	12.6CT	3.0	115	1500	BAH	2¼	3 11/16	2¼	3⅛	---	1.8
	21F193	12.6CT	4.0	117	1500	BAH	2⅝	4	2⅜	3 9/16	---	2.5
	21F194	12.6CT	6.0	117	1500	GGV	3½	2 13/16	3⅜	2¼	2⅛	3.5
	21F195	12.6CT	8.0	117	1500	GGV	3⅞	3⅛	3⅜	2½	2 3/16	4.5
	21F196	12.6CT	10.0	117	1500	GGV	4¼	3 7/16	3⅞	2¾	2 11/16	5.5
B	23V532	14.0CT	.25	115/230	1500	BAH	1⅜	2⅜	1½	2	---	0.3
	23V524	14.0CT	.25	115	1500	BAH	1⅜	2⅜	1⅜	2	---	0.4
	23V470	14.0CT	1.0	115	1500	BAH	2	3¼	1¾	2 13/16	---	1.2
	23V471	14.0CT	2.0	115	1500	BAH	2¼	3 11/16	2	3⅛	---	1.5
	23V526	14.0CT	4.0	115	1500	LAV	3	2½	2⅝	2	---	3.0
	23V472	14.0CT	6.0	115	1500	LAV	3½	2⅞	2⅞	2¼	2⅜	4.0
C	23V543	18.0CT	1.0	115	1500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	#23V544	18.0	1.5	115	1500	BAH	2¼	3 11/16	2⅛	3⅛	---	1.7
	23V545	18.0CT	2.0	115	1500	BAH	2¼	3 11/16	2¼	3⅛	---	2.0
	23V505•	18.0CT	8.0	115	1500	LHH	3¾	4½	3¾	3¾	2¾	8.0
		18.0CT	8.0	115								
D	23V512	20.0CT	.10	115/230	2500	BAH	1 9/32	2 1/16	1¼	1¾	---	0.4
	23V513	20.0CT	.15	115/230	2500	BAH	1 9/32	2 1/16	1¼	1¾	---	0.4
	23V514	20.0CT	.20	115/230	2500	BAH	1⅜	2⅜	1⅜	2	---	0.4
	23V515	20.0CT	.25	115/230	2500	BAH	1⅜	2⅜	1⅜	2	---	0.4
	23V516	20.0CT	.30	115/230	2500	BAH	1⅜	2⅜	1 7/16	2	---	0.6
	23V517	20.0CT	.40	115/230	2500	BAH	1⅝	2 13/16	1½	2⅜	---	0.6
	23V518	20.0CT	.50	115/230	2500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.8
	23V519	20.0CT	1.0	115/230	2500	BAH	2	3¼	2⅛	2 13/16	---	1.4
E	23V474	20.0CT	2.0	115	1500	BAH	2 9/16	4	2¼	3 9/16	---	2.5
	23V527	20.0CT	4.0	115	1500	LAV	3⅜	2 13/16	2⅞	2¼	2⅜	4.0
F	23V256	24.0CT	.085	117	1500	BAH	1¼	2 1/16	1½	1¾	---	0.3
	23V401	24.0CT	.085	230	1500	BAH	1¼	2 1/16	1⅜	1¾	---	0.3
	23V257	24.0CT	.20	117	1500	BAH	1⅜	2⅜	1½	2	---	0.4
	23V402	24.0CT	.20	230	1500	BAH	1⅜	2⅜	1½	2	---	0.4
	23V258	24.0CT	.40	117	1500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.8
	23V259	24.0CT	.70	117	1500	BAH	2	3¼	1¾	2 13/16	---	0.9
	23V404	24.0CT	.70	230	1500	BAH	2	3¼	1¾	2 13/16	---	0.9
G	26F68	24.0	1.0	117	2500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	21F84	24.0CT	1.0	115	1500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	21F181	24.0CT	1.0	115/230	1500	BAH	2	3 5/16	2⅛	2 13/16	---	1.5
	23V552•	24.0	2.0	115	1500	BAH	2⅝	4	2 1/16	3 9/16	---	2.3
	23V478	24.0CT	2.0	115	1500	BAH	2⅝	4	2⅜	3 9/16	---	2.3
	23V419	24.0CT	4.0	117	1500	LAV	3 13/16	3⅛	2 13/16	2½	2⅛	4.0
	23V420	24.0CT	6.0	117	1500	LAV	4 3/16	3 7/16	3	2¾	2¼	5.7
	23V421	24.0CT	8.0	117	1500	LAV	4 3/16	3 7/16	3 7/16	2¾	2¾	7.3
	23V546	24.0CT	10.0	115	1500	LAV	4 3/16	3½	3¾	2¾	3	8.0
	23V422	24.0CT	12.0	117	1500	LAV	4 9/16	3¾	4⅝	3	3¼	11.5

Has electrostatic shield. • 60Hz. only. ••Multiple Secondaries.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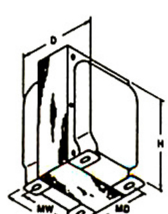
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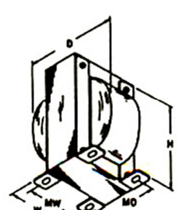
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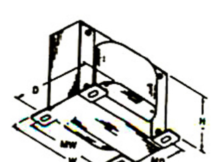
LHH

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THORDARSON MEISSNER®

50/60 HZ. except • Lead wire terminations except 23V505 with lugs and dual secondary. (cont'd)

SECT	Part Number	Secondary RMS Volts	Secondary RMS Amps.	Primary Volts	Insulation Test RMS Volts	Style	Dimensions-Inches Case H	Case W	Case D	Mounting MW	Mounting MD	Wt. Lbs.
	21F51	25.2	1.0	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	21F59	25.2	1.0	230	1500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	21F142	25.2CT	1.0	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.5
	21F83	25.2CT	2.0	115	1500	BAH	2⅝	4	2¼	3 9/16	---	2.2
A	21F180	25.2CT	2.0	115/230	1500	BAH	2⅝	4	2¼	3 9/16	---	2.2
	21F114	25.2CT	3.0	117	1500	BAH	2⅝	4	2¼	3 9/16	---	2.2
	21F197	25.2CT	5.0	117	1500	GGV	4¼	3 7/16	3⅞	2¾	2 11/16	5.5
	21F198	25.2CT	7.5	117	1500	GGV	4¼	3 7/16	4¼	2¾	3 1/16	7.5
	21F188•	26.0OCT	0.04	117•	2500	BAH	1¼	2 1/16	1½	1¾	---	0.3
		Nominal										
B	21F189•	26.0OCT	0.25	117•	2500	BAH	1⅝	2 13/16	1¾	2⅜	---	0.6
		Nominal										
	21F27	26.5CT	0.6	117	3000	BAH	2	3¼	2⅛	2 13/16	---	1.6
	21F82	26.8CT	1.0	115	1500	BAH	2	3¼	2⅛	2 13/16	---	1.6
	23V270	26.8CT	1.7	115	1500	BAH	2⅝	4	2¼	3 9/16	---	2.3
	23V379	28.0CT	0.085	117	1500	BAH	1¼	2 1/16	1⅜	1¾	---	0.3
	23V381	28.0CT	0.30	117	1500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.6
	23V382	28.0CT	0.80	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.0
C	23V423	28.0CT	1.0	117	1500	BAH	2	3¼	2⅛	2 13/16	---	1.4
	23V424	28.0CT	2.0	117	1500	LAV	3⅛	2½	2½	2	2 3/16	2.9
	23V425	28.0CT	4.0	117	1500	LAV	3 13/16	3⅛	3¼	2½	2½	5.3
	23V426	28.0CT	6.0	117	1500	LAV	4 3/16	3 7/16	3½	2¾	2⅝	7.0
	23V479	30.0CT	1.0	115	1500	BAH	2¼	3 11/16	2	3⅛	---	1.5
	23V525	30.0CT	1.7	115	1500	BAH	2⅝	4	2¼	3 9/16	---	1.5
D	23V480	30.0CT	2.0	115	1500	LAV	3⅛	2 9/16	2⅝	2	2⅜	3.2
	23V528	30.0CT	4.0	115	1500	LAV	3⅞	3⅛	3⅛	2½	2⅝	5.8
	23V531	30.0CT	1.5	115/230	1500	BAH	2⅝	4	2 5/16	3 9/16	---	2.2
	23V384	36.0CT	0.065	117	1500	BAH	1¼	2⅛	1⅜	1¾	---	0.3
	23V405	36.0CT	0.065	230	1500	BAH	1¼	2⅛	1⅜	1¾	---	0.3
	23V385	36.0CT	0.135	117	1500	BAH	1⅜	2⅜	1 7/16	2	---	0.4
	23V386	36.0CT	0.30	117	1500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.7
E	23V387	36.0CT	0.55	117	1500	BAH	2	3¼	1⅞	2 13/16	---	1.0
	23V427	36.0CT	1.0	117	1500	LAV	2⅜	3¾	2⅜	3⅛	---	2.0
	23V428	36.0CT	2.0	117	1500	LAV	3 7/16	2 13/16	2¾	2¼	2⅛	3.4
	23V429	36.0CT	4.0	117	1500	LAV	4 3/16	3 7/16	3⅛	2¾	2⅜	6.1
	23V430	36.0CT	6.0	117	1500	LAV	4 9/16	3¾	3⅝	3	2⅝	8.5
	23V520	40.0CT	0.12	115/230	2500	BAH	1⅜	2⅜	1⅜	2	---	0.5
	23V521	40.0CT	0.2	115/230	2500	BAH	1⅝	2 13/16	1½	2⅜	---	0.6
	23V522	40.0CT	0.25	115/230	2500	BAH	1⅝	2 13/16	1⅝	2⅜	---	0.8
F	23V458	40.0CT	1.0	115	1500	BAH	2⅝	4	2 5/16	3 9/16	---	2.6
	23V459	40.0CT	2.0	115	1500	LAV	3½	2⅞	2⅞	2¼	2⅜	4.0
	23V529	40.0CT	4.0	115	1500	LAV	3⅞	3⅛	3½	2½	2⅞	6.3
	21F187••	48.0CT	1.0	117••	2500	BAH	2⅝	4	2⅜	3 9/16	---	2.3
		Nominal		115								
G	23V466	50.0CT	1.0	115	1500	BAH	2⅝	4	2 5/16	3 9/16	---	2.5
	23V530	50.0CT	4.0	115	1500	LAV	4 3/16	3 7/16	3½	2¾	2¾	7.5
	23V523	60.0CT	0.4	115	1500	BAH	2	3¼	2	2 13/16	---	1.3
H	23V464	60.0CT	1.0	115	1500	LAV	3	2½	2 5/16	2	2⅜	3.4
	23V465	60.0CT	2.0	115	1500	LAV	3 13/16	3⅛	2⅞	2½	2⅝	5.7
	23V468	70.0CT	1.0	115	1500	LAV	3½	2⅞	3½	2¼	2¼	4.1

• Primary tapped to provide secondary voltages of 24.5 C.T. or 27.5 C.T. or 29 C.T.

•• Primary tapped to provide secondary voltages of 45 C.T. or 51 C.T. or 54 C.T.

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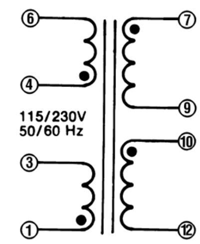
THORDARSON MEISSNER®

INTERNATIONAL P C B POWER TRANSFORMER WITH 4KV ISOLATION, 50/60HZ, 115/230V PRIMARY, 5V TO 36V SECONDARIES @ 2.5VA TO 56.0VA

- Meets US and International Safety Standards
- UL, VDE, IEC, CSA
- 4,000 Volt RMS hi-pot Test-Dual Non-concentric Bobbin and Insulating Shroud Provide High Isolation and Reduced Capacitance
- 130°C Insulation System-Insulating Materials Meet UL 94V-0 Flammability Requirements
- Cost Effective Design

130B

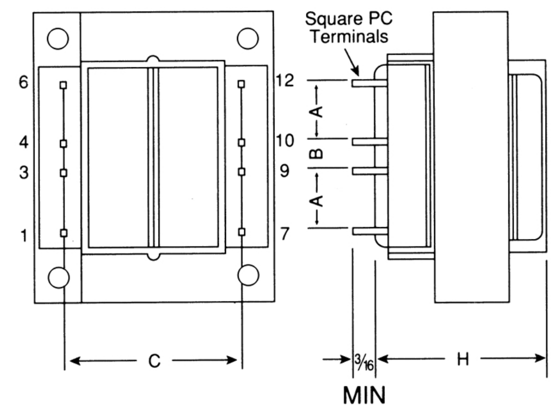
Contact Thordarson Meissner Sales For Current Agency File Numbers

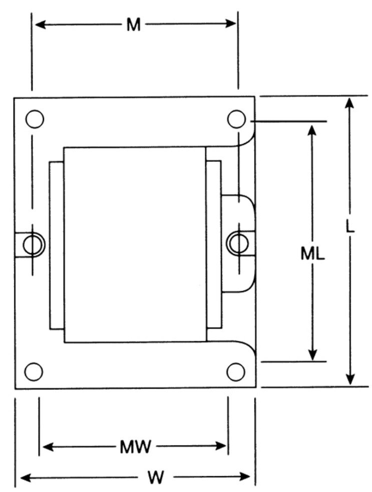


- Polarity

115/230V 50/60 Hz Primary

Part Number			Secondary			
			Parallel Connected		Series Connected	
Thordarson Inc.	Thordarson Meissner	VA Size	AC Volts	RMS Amps	AC Volts	RMS Volts
PL2.5-10-T	TIPC-10-2.5	2.5	5.0	0.5	10.0CT	0.25
PL5.0-10-T	TIPC-10-5	5	5.0	0.1	10.0CT	0.5
PL10-10-T	TIPC-10-10	10	5.0	2.0	10.0CT	1.0
PL20-10-T	TIPC-10-20	20	5.0	4.0	10.0CT	2.0
PL30-10-T	TIPC-10-30	30	5.0	6.0	10.0CT	3.0
PL56-10-T	TIPC-10-56	56	5.0	11.2	10.0CT	5.6
PL2.5-12-T	TIPC-12-2.5	2.5	6.3	0.4	12.6CT	0.2
PL5.0-12-T	TIPC-12-5	5	6.3	0.8	12.6CT	0.4
PL10-12-T	TIPC-12-10	10	6.3	1.6	12.6CT	0.8
PL20-12-T	TIPC-12-20	20	6.3	3.2	12.6CT	1.6
PL30-12-T	TIPC-12-30	30	6.3	4.8	12.6CT	2.4
PL56-12-T	TIPC-12-56	56	6.3	8.8	12.6CT	4.4
PL2.5-16-T	TIPC-16-2.5	2.5	8.0	0.3	16.0CT	0.15
PL5.0-16-T	TIPC-16-5	5	8.0	0.62	16.0CT	0.31
PL10-16-T	TIPC-16-10	10	8.0	1.25	16.0CT	0.62
PL20-16-T	TIPC-16-20	20	8.0	2.5	16.0CT	1.25
PL30-16-T	TIPC-16-30	30	8.0	3.8	16.0CT	1.9
PL56-16-T	TIPC-16-56	56	8.0	7.0	16.0CT	3.5
PL2.5-20-T	TIPC-20-2.5	2.5	10.0	0.24	20.0CT	0.12
PL5.0-20-T	TIPC-20-5	5	10.0	0.5	20.0CT	0.25
PL10-20-T	TIPC-20-10	10	10.0	1.0	20.0CT	0.5
PL20-20-T	TIPC-20-20	20	10.0	2.0	20.0CT	1.0
PL30-20-T	TIPC-20-30	30	10.0	3.0	20.0CT	1.5
PL56-20-T	TIPC-20-56	56	10.0	5.6	20.0CT	2.8
PL2.5-24-T	TIPC-24-2.5	2.5	12.0	0.2	24.0CT	0.1
PL5.0-24-T	TIPC-24-5	5	12.0	0.42	24.0CT	0.21
PL10-24-T	TIPC-24-10	10	12.0	0.84	24.0CT	0.42
PL20-24-T	TIPC-24-20	20	12.0	1.66	24.0CT	0.83
PL30-24-T	TIPC-24-30	30	12.0	2.5	24.0CT	1.25
PL56-24-T	TIPC-24-56	56	12.0	4.66	24.0CT	2.33
PL2.5-28-T	TIPC-28-2.5	2.5	14.0	0.18	28.0CT	0.09
PL5.0-28-T	TIPC-28-5	5	14.0	0.36	28.0CT	0.18
PL10-28-T	TIPC-28-10	10	14.0	0.72	28.0CT	0.36
PL20-28-T	TIPC-28-20	20	14.0	1.44	28.0CT	0.72
PL30-28-T	TIPC-28-30	30	14.0	2.12	28.0CT	1.06
PL56-28-T	TIPC-28-56	56	14.0	4.0	28.0CT	2.0
PL2.5-36-T	TIPC-36-2.5	2.5	18.0	0.14	36.0CT	0.07
PL5.0-36-T	TIPC-36-5	5	18.0	0.28	36.0CT	0.14
PL10-36-T	TIPC-36-10	10	18.0	0.56	36.0CT	0.28
PL20-36-T	TIPC-36-20	20	18.0	1.12	36.0CT	0.56
PL30-36-T	TIPC-36-30	30	18.0	1.64	36.0CT	0.82
PL56-36-T	TIPC-36-56	56	18.0	3.12	36.0CT	1.56





Dimensions in inches

VA	L	W	H	A	B	C	PIN	M	MW	ML	Mtg. Screw	Wt.
2.5	$1\frac{5}{8}$	$1\frac{7}{16}$	$1\frac{1}{8}$	0.200	0.250	1.00	0.025SQ.	$1\frac{1}{16}$	–	—	2 x #4	0.25
5.0	$1\frac{5}{8}$	$1\frac{7}{16}$	$1\frac{3}{8}$	0.200	0.400	1.000	0.025SQ	$1\frac{1}{16}$	–	—	2 x #4	0.38
10	$1\frac{7}{8}$	$1\frac{9}{16}$	$1\frac{3}{8}$	0.200	0.400	1.140	0.036SQ	$1\frac{1}{4}$	—	—	2 x #4	0.54
20	$2\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{5}{8}$	0.400	0.400	1.460	0.036SQ	$1\frac{1}{2}$	—	—	2 x #4	0.54
30	$2\frac{5}{8}$	$2\frac{3}{16}$	$1\frac{5}{8}$	0.550	0.275	1.680	0.045SQ	—	$1\frac{3}{4}$	$2\frac{3}{16}$	4 x #8	1.20
56	3	$2\frac{1}{2}$	$1\frac{13}{16}$	0.300	0.300	1.900	0.045SQ	—	2	$2\frac{1}{2}$	4 x #8	1.75

Note: The 2.5, 5, and 10VA "W" Dimension has a bobbin projection outside the lamination width.

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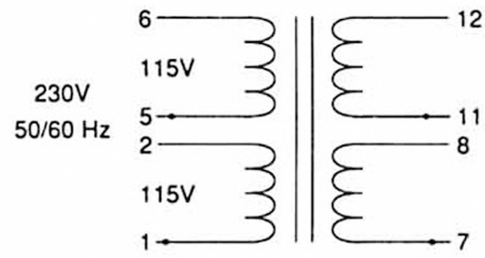
THORDARSON MEISSNER®

INTERNATIONAL CHASSIS MOUNT POWER TRANSFORMERS WITH 4K ISOLATION, 50/60HZ, 115/230V PRIMARY, 5.0V TO 230V @ 25 TO 175VA

- US & International Safety Standards
- UL, VDE, CSA
- 4,000 Volt RMS Hi-pot Test-Dual Non-concentric Bobbin & Insulating Shroud Provide High Isolation & Reduced Capacitance
- 130°C Insulation System & Insulating Materials Meet UL 94V-0 Flammability Requirements
- Cost Effective Design

130B

Contact Thordarson Meissner Sales For Current Agency File Numbers



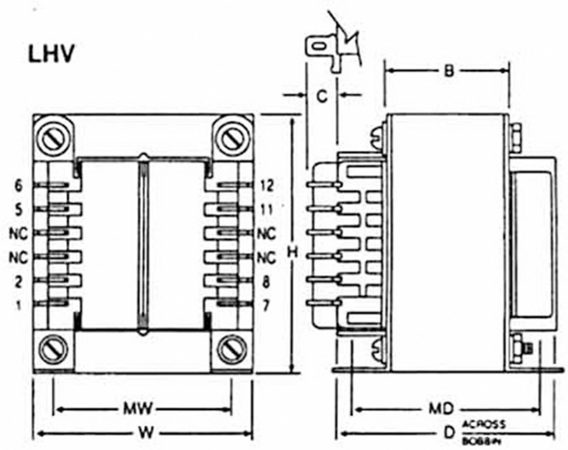
• Polarity

These Transformers are designed for the primary and secondary to be connected in series or parallel. Do not use as individual windings.

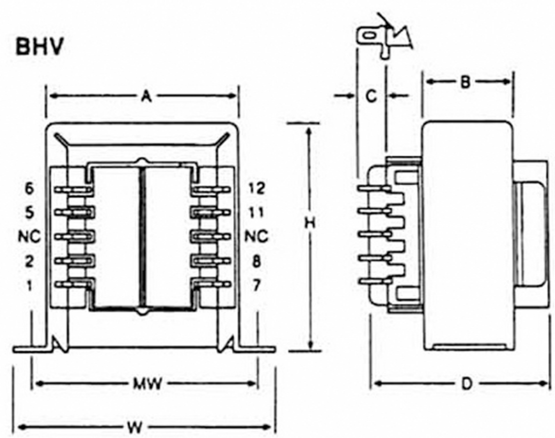
115/230V 50/60 Hz Primary

Part Number			Secondary RMS Ratings	
Thordarson Meissner	Thordarson Inc.	VA Size	Series	Parallel
TIVL-10-25	A41-25-10-T	25	10VCT @ 2.5A	5V @ 5.0A
TIVL-10-43	A41-43-10-T	43	10VCT @ 4.3A	5V @ 8.6A
TIVL-10-80	A41-80-10-T	80	10VCT @ 8.0A	5V @ 16.0A
TIVL-10-130	A41-130-10-T	130	10VCT @ 13.0A	5V @ 26.0A
TIVL-10-175	A41-175-10-T	175	10VCT @ 17.5A	5V @ 35.0A
TIVL-12-25	A41-25-12-T	25	12.6VCT @ 2.0A	6.3V @ 4.0A
TIVL-12-43	A41-43-12-T	43	12.6VCT @ 3.4A	6.3V @ 6.8A
TIVL-12-80	A41-80-12-T	80	12.6VCT @ 6.3A	6.3V @ 12.6A
TIVL-12-130	A41-130-12-T	130	12.6VCT @ 10.3A	6.3V @ 20.6A
TIVL-12-175	A41-175-12-T	175	12.6VCT @ 14.0A	6.3V @ 28.0A
TIVL-16-25	A41-25-16-T	25	16VCT @ 1.6A	8V @ 3.2A
TIVL-16-43	A41-43-16-T	43	16VCT @ 2.7A	8V @ 5.4A
TIVL-16-80	A41-80-16-T	80	16VCT @ 5.0A	8V @ 10.0A
TIVL-16-130	A41-130-16-T	130	16VCT @ 8.1A	8V @ 16.2A
TIVL-16-175	A41-175-16-T	175	16VCT @ 11.0A	8V @ 22.0A
TIVL-20-25	A41-25-20-T	25	20VCT @ 1.25A	10V @ 2.5A
TIVL-20-43	A41-43-20-T	43	20VCT @ 2.2A	10V @ 4.4A
TIVL-20-80	A41-80-20-T	80	20VCT @ 4.0A	10V @ 8.0A
TIVL-20-130	A41-130-20-T	130	20VCT @ 6.5A	10V @ 13.0A
TIVL-20-175	A41-175-20-T	175	20VCT @ 8.8A	10V @ 17.6A
TIVL-24-25	A41-25-24-T	25	24VCT @ 1.0A	12V @ 2.0A
TIVL-24-43	A41-43-24-T	43	24VCT @ 1.8A	12V @ 3.6A
TIVL-24-80	A41-80-24-T	80	24VCT @ 3.3A	12V @ 6.6A
TIVL-24-130	A41-130-24-T	130	24VCT @ 5.4A	12V @ 10.8A
TIVL-24-175	A41-175-24-T	175	24VCT @ 7.3A	12V @ 14.6A
TIVL-28-25	A41-25-28-T	25	28VCT @ 0.9A	14V @ 1.86A
TIVL-28-43	A41-43-28-T	43	28VCT @ 1.5A	14V @ 3.0A
TIVL-28-80	A41-80-28-T	80	28VCT @ 2.8A	14V @ 5.6A
TIVL-28-130	A41-130-28-T	130	28VCT @ 4.6A	14V @ 9.2A
TIVL-28-175	A41-175-28-T	175	28VCT @ 6.25A	14V @ 12.5A
TIVL-36-25	A41-25-36-T	25	36VCT @ 0.7A	18V @ 1.4A
TIVL-36-43	A41-43-36-T	43	36VCT @ 1.2A	18V @ 2.4A
TIVL-36-80	A41-80-36-T	80	36VCT @ 2.2A	18V @ 4.4A
TIVL-36-130	A41-130-36-T	130	36VCT @ 3.6A	18V @ 7.2A
TIVL-36-175	A41-175-36-T	175	36VCT @ 4.8A	18V @ 9.6A
TIVL-230-25	A41-25-230-T	25	230VCT @ 0.11A	115V @ 0.22A
TIVL-230-43	A41-43-230-T	43	230VCT @ 0.19A	115V @ 0.38A
TIVL-230-80	A41-80-230-T	80	230VCT @ 0.35A	115V @ 0.7A
TIVL-230-130	A41-130-230-T	130	230VCT @ 0.57A	115V @ 1.14A
TIVL-230-175	A41-175-230-T	175	230VCT @ 0.76A	115V @ 1.52A

LHV



BHV



Dimensions in inches

VA	H	W	D	A ref	B ref	C	Terminal*	Style	MW	MD	MTG Hole	Wt.
25	2 5/16	2 13/16	1 7/8	2	1 1/8	11/32	0.187	BHV	2 3/8	—	3/16 dia.	1.3
43	2 11/16	3 1/8	1 31/32	2 1/4	1 1/8	11/32	0.187	BHV	2 13/16	—	3/16 dia.	1.7
80	3	2 1/2	2 5/16	—	1 3/8	11/32	0.187	LHV	2	2 1/4	13/64 x 3/8	2.9
130	3 3/8	2 13/16	2 11/16	—	1 5/8	13/32	0.250	LHV	2 1/4	2 1/2	13/64 x 3/8	4.3
175	3 3/4	3 1/8	2 13/16	—	1 5/8	13/32	0.250	LHV	2 1/2	2 1/2	13/64 x 3/8	5.7

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THORDARSON MEISSNER®

CHASSIS MOUNT (CFP SERIES) TRANSFORMERS
WITH QUICK CONNECT OR SOLDER LUG TERMINALS, 115V & 115/230V, 50/60HZ PRIMARIES & 10VCT TO 120VCT SECONDARIES @ 2.4VA TO 100VA

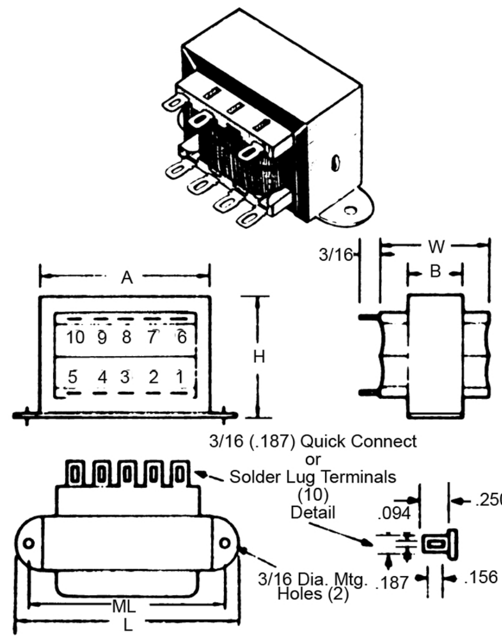
- Power-2.4 VA to 100 VA
- Dielectric Strength-2500VRMS
- Primaries- Single or dual primaries
- Secondary-Single center tapped secondary
- Terminals-Solder lug / quick connect type terminals

130B

Contact Thordarson Meissner Sales
For Current Agency File Numbers

115V or 115/230V-50/60Hz Primary Types

Part Number			Secondary RMS	
115V Primary	115/230V Primary	VA Size	Volts	Amps
CFP-201	CFP-200	2.4	10CT	.250
CFP-301	CFP-300	6	10CT	600
CFP-401	CFP-400	12	10CT	1.2
CFP-501	CFP-500	30	10CT	3.0
CFP-601	CFP-600	56	10CT	5.0
CFP-701	CFP-700	100	10CT	10.0
CFP-203	CFP-202	2.4	12.6CT	.200
CFP-303	CFP-302	6	12.6CT	.500
CFP-403	CFP-402	12	12.6CT	1.0
CFP-503	CFP-502	30	12.6CT	2.5
CFP-603	CFP-602	56	12.6CT	4.0
CFP-703	CFP-702	100	12.6CT	8.0
CFP-205	CFP-204	2.4	16CT	.150
CFP-305	CFP-304	6	16CT	.400
CFP-405	CFP-404	12	16CT	.800
CFP-505	CFP-504	30	16CT	2.0
CFP-605	CFP-604	56	16CT	3.5
CFP-705	CFP-704	100	16CT	6.25
CFP-207	CFP-206	2.4	20CT	.120
CFP-307	CFP-306	6	20CT	.300
CFP-407	CFP-406	12	20CT	.600
CFP-507	CFP-506	30	20CT	1.5
CFP-607	CFP-606	56	20CT	2.8
CFP-707	CFP-706	100	20CT	5.0
CFP-209	CFP-208	2.4	24CT	.100
CFP-309	CFP-308	6	24CT	.250
CFP-409	CFP-408	12	24CT	.500
CFP-509	CFP-508	30	24CT	1.25
CFP-609	CFP-608	56	24CT	2.4
CFP-709	CFP-708	100	24CT	4.0
CFP-211	CFP-210	2.4	28CT	.085
CFP-311	CFP-310	6	28CT	200
CFP-411	CFP-410	12	28CT	420
CFP-511	CFP-510	30	28CT	1.1
CFP-611	CFP-610	56	28CT	2.0
CFP-711	CFP-710	100	28CT	3.6
CFP-213	CFP-212	2.4	36CT	.065
CFP-313	CFP-312	6	36 CT	.170
CFP-413	CFP-412	12	36CT	.350
CFP-513	CFP-512	30	36CT	.850
CFP-613	CFP-612	56	36CT	1.5
CFP-713	CFP-712	100	36CT	2.8
CFP-215	CFP-214	2.4	48CT	.050
CFP-315	CFP-314	6	48CT	.125
CFP-415	CFP-414	12	48CT	.250
CFP-515	CFP-514	30	48CT	.630
CFP-615	CFP-614	56	48CT	1.2
CFP-715	CFP-714	100	48CT	2.0
CFP-217	CFP-216	2.4	56CT	.045
CFP-317	CFP-316	6	56CT	.110
CFP-417	CFP-416	12	56CT	.220
CFP-517	CFP-516	30	56CT	.540
CFP-617	CFP-617	56	56CT	1.0
CFP-717	CFP-716	100	56CT	1.8
CFP-219	CFP-218	2.4	120CT	.020
CFP-319	CFP-318	6	120CT	.050
CFP-419	CFP-418	12	120CT	.100
CFP-519	CFP-518	30	120CT	.250
CFP-619	CFP-618	56	120CT	.500
CFP-719	CFP-718	100	120CT	.850

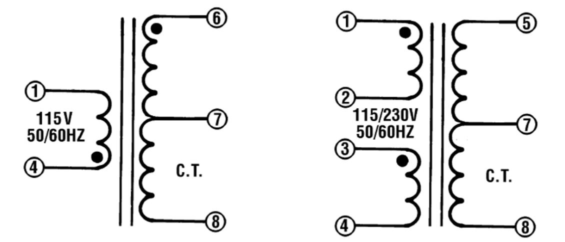


Dimensions in inches

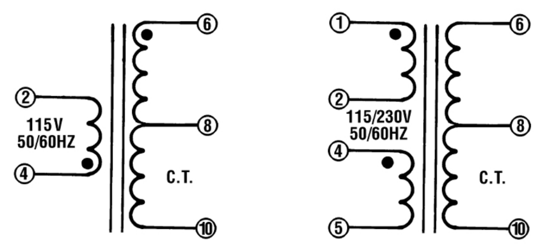
P/N Size	VA Size	L	W	H	A	B	NW	Wt. Lbs.
2XX	2.4	2 1/8	1 3/16	1 1/4	1 5/8	1/8	1 3/4	.3
3XX	6	2 3/8	1 1/8	1 3/8	1 11/16	11/16	2	.5
4XX	12	2 7/8	1 1/2	1 5/8	1 15/16	13/16	2 3/8	.7
5XX	30	3 1/8	1 23/32	1 15/16	2 5/16	1 1/8	2 13/16	1.1
6XX	56	3 3/4	1 27/32	2 1/4	2 11/16	1 1/16	3 1/8	1.7
7XX	100	4	2 1/8	2 1/8	3 1/8	1 1/8	3 9/16	2.8

FOR SINGLE PRIMARY

FOR DUAL PRIMARY



SIZES 2.4, 6, 12



SIZES 30, 56, 100

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THORDARSON MEISSNER®

3 FLANGE (MIM SERIES) PCB POWER TRANSFORMERS 50/60HZ, PRIMARY 115V OR 115/230V, SECONDARIES 5.0V TO 120V @ 1.1 TO 38VA

FEATURES

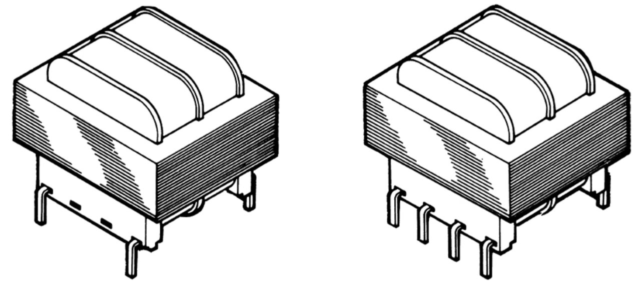
- 130°C insulation system
- 2,500Vrms hi-pot
- Dual Secondaries may be either Parallel or Series Connected
- Split Bobbin Construction-Center Flange Insulation Barrier; High Isolation for Low Leakage and Low Capacitance Applications

130B

Contact Thordarson Meissner Sales For Current Agency File Numbers

115 and 115/230V 50/60 Hz Primary Types

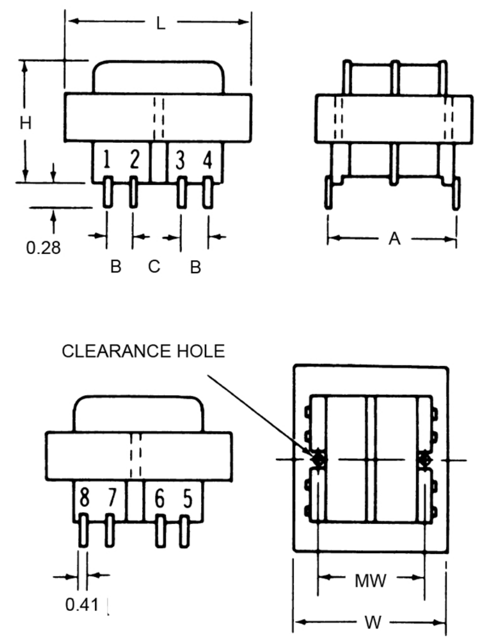
Part Number		VA	Secondary RMS Ratings	
Single 115V	Dual 115V/230V	Size	Series	Parallel
MIM321	MIM320	1.1	10V CT @ 10MA	5V @ 220MA
MIM323	MIM322	1.1	12.6V CT @ 90MA	6.3V @ 180MA
MIM325	MIM324	1.1	16V CT @ 70MA	8V @ 140MA
MIM327	MIM326	1.1	20V CT @ 55MA	10V @ 110MA
MIM329	MIM328	1.1	24V CT @ 45MA	12V @ 90MA
MIM331	MIM330	1.1	28V CT @ 40MA	14V @ 80MA
MIM333	MIM332	1.1	36V CT @ 30MA	18V @ 60MA
MIM335	MIM334	1.1	48V CT @ 23MA	24V @ 46MA
MIM337	MIM336	1.1	56V CT @ 20MA	28V @ 40MA
MIM339	MIM338	1.1	120V CT @ 10MA	60V @ 20MA
MIM421	MIM420	2.4	10V CT @ 250MA	5V @ 500MA
MIM423	MIM422	2.4	12.6V CT @ 200MA	6.3V@ 400MA
MIM425	MIM424	2.4	16V CT @ 150MA	8V @ 300MA
MIM427	MIM426	2.4	20V CT @ 120MA	10V @ 240MA
MIM429	MIM428	2.4	24V CT @ 100MA	12V @ 200MA
MIM431	MIM430	2,4	28V CT @ 85MA	14V @ 170MA
MIM433	MIM432	2.4	36V CT @ 65MA	18V @ 130MA
MIM435	MIM434	2.4	48V CT @ 50MA	24V @ 100MA
MIM437	MIM436	2.4	56V CT @ 45MA	28V @ 90MA
MIM439	MIM438	2.4	120V CT @ 20MA	60V @ 40MA
MIM521	MIM520	6	10V CT @ 600MA	5V @ 1.2A
MIM523	MIM522	6	12.6V CT @ 500MA	6.3V @ 1.0A
MIM525	MIM524	6	16V CT @ 400MA	8V @ 800MA
MIM527	MIM526	6	20V CT @ 300MA	10V @ 600MA
MIM529	MIM528	6	24V CT @ 250MA	12V @ 500MA
MIM531	MIM530	6	28V CT @ 200MA	14V @ 400MA
MIM533	MIM532	6	36V CT @ 170MA	18V @ 340MA
MIM535	MIM534	6	48V CT @ 125MA	24V @ 250MA
MIM537	MIM536	6	56V CT @ 110MA	28V @ 220MA
MIM539	MIM538	6	120V CT @ 50MA	60V @ 100MA
MIM621	MIM620	12	10V CT @ 1.2A	5V @ 2.4A
MIM623	MIM622	12	12.6V CT @ 1.0A	6.3V @ 2.0A
MIM625	MIM624	12	16V CT @ 800MA	8V @ 1.6A
MIM627	MIM626	12	20V CT @ 600MA	10V @ 1.2A
MIM629	MIM628	12	24V CT @ 500MA	12V @ 1.0A
MIM631	MIM630	12	28V CT @ 420MA	14V @ 840MA
MIM633	MIM632	12	36V CT @ 350MA	18V @ 700MA
MIM635	MIM634	12	48V CT @ 250MA	24V @ 500MA
MIM637	MIM636	12	56V CT @ 220MA	28V @ 440MA
MIM639	MIM638	12	120V CT @ 100MA	60V @ 200MA
MIM720	MIM721	20	10V CT @ 2.0A	5V @ 4.0A
MIM722	MIM723	20	12.6V CT @ 1.6A	6.3V @ 3.2A
MIM724	MIM725	20	16V CT @ 1.25A	8V @ 2.5A
MIM726	MIM727	20	20V CT @ 1.0A	10V @ 2.0A
MIM728	MIM729	20	24V CT @ 800MA	12V @ 1.6A
MIM730	MIM731	20	28V CT @ 700MA	14V @ 1.4A
MIM732	MIM733	20	36V CT @ 550MA	18V @ 1.1A
MIM734	MIM735	20	48V CT @ 400MA	24V @ 800MA
MIN736	MIM737	20	56V CT @ 350MA	28V @ 700MA
MIM738	MIM739	20	120V CT @ 160MA	60V @ 320MA
MIM820	MIM821	36	10V CT @ 3.6A	5V @ 7.20A
MIM822	MIM823	36	12.6V CT @ 2.85A	6.3V @ 5.7A
MIM824	MIM825	36	16V CT @ 2.25A	8V @ 4.5A
MIM826	MIM827	36	20V CT @ 1.8A	10V @ 3.6A
MIM828	MIM829	36	24V CT @ 1.5A	12V @ 3.0A
MIM830	MIM831	36	28V CT @ 1.3A	14V @ 2.6A
MIM832	MIM833	36	36V CT @ 1.0A	18V @ 2.0A
MIM834	MIM835	36	48V CT @ 750MA	24V @ 1.5A
MIM836	MIM837	36	56V CT @ 650MA	28V @ 1.3A
MIM838	MIM839	36	120V CT @ 300MA	60V @ 600MA

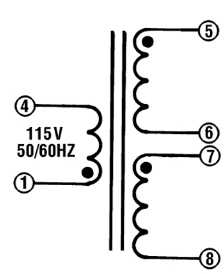


Dimensions in inches(mm)

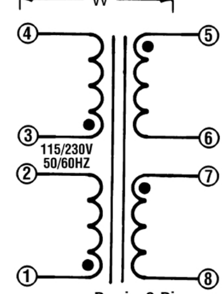
MIM P/N Size	VA Size	Case H	Case L	Case W	MTG MW	A	B	C	WT. lbs.
3XX	1.1	.938	1.375	1.125	—	1.200	.250	.250	.17
4XX	2.5	1.188	1.375	1.125	—	1.200	.250	.250	.25
5XX	6	1.313	1.625	1.312	1.062	1.280	.250	.350	.44
6XX	12	1.438	1.875	1.562	1.250	1.410	.300	.400	.70
7XX	20	1.563	2.250	1.875	1.500	1.600	.300	.400	.80
8XX	36	1.563	2.625	2.187	##	1.850	.400	.400	1.10

4 MTG holes 5/32 on 2-3/16 x 1-3/4 centers





Basic 6 Pin Single 115V



Basic 8 Pin Dual 115/230V

Thordarson Meissner, Inc,
537 East Brooks Ave., #409
North Las Vegas, NV 89030-3973

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FX: 702-566-2080
E-mail: info@thordarsonmagnetics.com

LOW PROFILE (PFC SERIES) PCB POWER TRANSFORMERS, 50/60HZ, PRIMARY 115/230V, SECONDARIES 5.0V to 120V @ 1.1 to 38VA

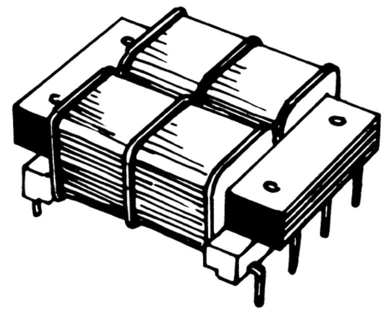
- **Split Bobbin—**Primaries and secondaries wound side by side. High isolation for low leakage applications.
- Low capacity coupling minimizes noise and false triggering.
- **Hum-bucking semi-toroidal construction.**

c UL 130B

Contact Thordarson Meissner Sales
For Current Agency File Numbers

115/230V, 50/60 Hz Primary

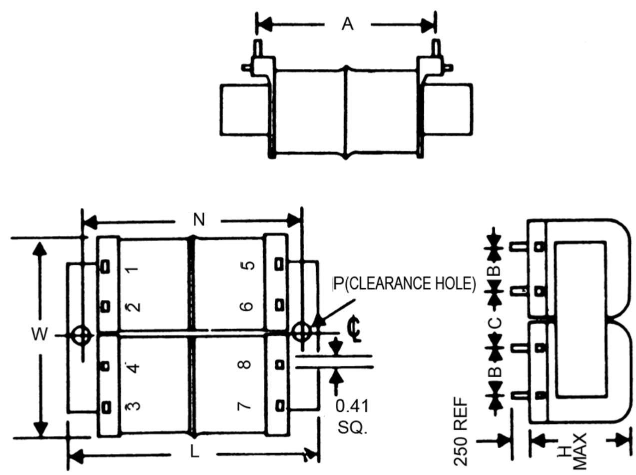
Part Number		VA Size	Secondary RMS Ratings			
			Series Connected		Parallel Connected	
Thordarson Inc.	Thordarson Meissner		AC Volts	RMS Amp	Volts	RMS Amp
PF2.5-10-T	PFC200	2.5	10CT	.250	5	.500
PF6-10-T	PFC202	6	10CT	.600	5	1.2
PF12-10-T	PFC204	12	10CT	1.2	5	2.4
PF24-10-T	PFC206	24	10CT	2.4	5	4.8
PF48-10-T	PFC208	48	10CT	4.8	5	9.6
PF2.5-12-T	PFC210	2.5	12.6CT	.200	6.3	.400
PF6-12-T	PFC212	6	12.6CT	.450	6.3	.900
PF12-12-T	PFC214	12	12.6CT	.900	6.3	1.8
PF24-12-T	PFC216	24	12.6CT	1.9	6.3	3.8
PF48-12-T	PFC218	48	12.6CT	3.8	6.3	7.6
PF2.5-16-T	PFC220	2.5	16CT	.150	8	.300
PF6-16-T	PFC222	6	16CT	.350	8	.700
PF12-16-T	PFC224	12	16CT	.700	8	1.4
PF24-16-T	PFC226	24	16CT	1.5	8	3.0
PF48-16-T	PFC228	48	16CT	3.0	8	6.0
PF2.5-20-T	PFC230	2.5	20CT	.125	10	.250
PF6-20-T	PFC232	6	20CT	.300	10	.600
PF12-20-T	PFC234	12	20CT	.600	10	1.2
PF24-20-T	PFC236	24	20CT	1.2	10	2.4
PF48-20-T	PFC238	48	20CT	2.4	10	4.8
PF2.5-24-T	PFC240	2.5	24CT	.100	12	.200
PF6-24-T	PFC242	6	24CT	.250	12	.500
PF12-24-T	PFC244	12	24CT	.500	12	1.0
PF24-24-T	PFC246	24	24CT	1.0	12	2.0
PF48-24-T	PFC248	48	24CT	2.0	12	4.0
PF2.5-30-T	PFC190	2.5	30CT	.085	15	.170
PF6-30-T	PFC192	6	30CT	.200	15	.400
PF12-30-T	PFC294	12	30CT	.400	15	.800
PF24-30-T	PFC296	24	30CT	.800	15	1.6
PF48-30-T	PFC298	48	30CT	1.6	15	3.2
PF2.5-34-T	PFC250	2.5	34CT	.075	17	.150
PF6-34-T	PFC252	6	34CT	.170	17	340
PF12-34-T	PFC254	12	34CT	.340	17	.680
PF24-34-T	PFC256	24	34CT	.700	17	1.4
PF48-34-T	PFC258	48	34CT	1.4	17	2.8
PF2.5-40-T	PFC260	2.5	40CT	.060	20	.120
PF6-40-T	PFC262	6	40CT	.150	20	.300
PF12-40-T	PFC264	12	40CT	.300	20	.600
PF24-40-T	PFC266	24	40CT	.600	20	1.2
PF48-40-T	PFC268	48	40CT	1.2	20	2.4
PF2.5-56-T	PFC270	2.5	56CT	.045	28	.090
PF6-56-T	PFC272	6	56CT	.100	28	.200
PF12-56-T	PFC274	12	56CT	.200	28	.400
PF24-56-T	PFC276	24	56CT	.425	28	.850
PF48-56-T	PFC278	48	56CT	.850	28	1.7
PF2.5-88-T	PFC280	2.5	88CT	.028	44	.056
PF6-88-T	PFC282	6	88CT	.065	44	.130
PF12-88-T	PFC284	12	88CT	130	44	.260
PF2.5-120-T	PFC290	2.5	120CT	.020	60	.040
PF6-120-T	PFC292	6	120CT	.050	60	.100
PF12-120-T	PFC324	12	120CT	.100	60	.200
PF2.5-230-T	PFC300	2.5	230CT	.010	115	.020
PF6-230-T	PFC302	6	230CT	.025	115	.050
PF12-230-T	PFC334	12	230CT	.050	115	.100



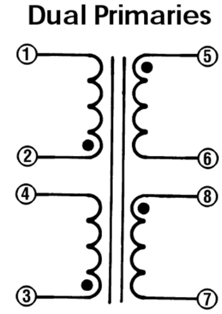
Dimensions in inches

VA Size	L	W	H	N	Pin Size	Hole Size P	A	B	C
2.4	1.875	1.562	.650	N/A	.041 x.020	N/A	1.6	.375	.375
6	1.875	1.562	.850	N/A	.041 x .020	N/A	1.6	.375	.375
12	2.500	2.000	1.065	N/A	.041 x .020	N/A	2.0	.500	.500
24	2.875	2.250	1.250	2.41	.041 x .041	For #4 Screw	1.9	.600	.530
48	3.125	2.500	1.375	2.62	.041 x .041	For #6 Screw	2.18	.600	.660

Dimensions are for reference only.



Dual Primaries



115/230v, 50/60 Hz

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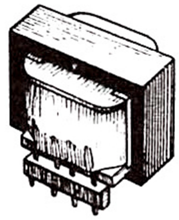
THORDARSON MEISSNER®



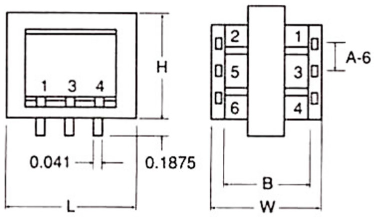
PRIMARY RATINGS:

Single 115V or Dual 115V/230V, rated 50/60 Hz.
2500 RMS Hipot

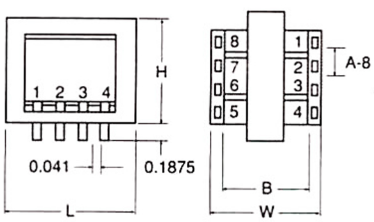
SECT	Part Number		VA Size	Secondary RMS Ratings	
	Single 115V	Dual 115V/230V		Series	Parallel
A	PCP 150	PCP 151	1.2	10V CT @ 120MA	5V @ 240MA
	PCP 152	PCP 153	1.2	12.6V CT @ 100MA	6.3V @ 200MA
	PCP 162	PCP 163	1.2	16V CT @ 75MA	8V @ 150MA
	PCP 172	PCP 173	1.2	20V CT @ 60MA	10V @ 120MA
	PCP 182	PCP 183	1.2	24V CT @ 50MA	12V @ 100MA
B	PCP 192	PCP 193	1.2	28V CT @ 40MA	14V @ 80MA
	PCP 202	PCP 203	1.2	34V CT @ 35MA	17V @ 70MA
	PCP 212	PCP 213	1.2	40V CT @ 30MA	20V @ 60MA
	PCP 222	PCP 223	1.2	56V CT @ 20MA	28V @ 40MA
	PCP 232	PCP 233	1.2	120V CT @ 10MA	60V @ 20MA
C	PCP 160	PCP 161	4.4	10V CT @ 440MA	5V @ 880MA
	PCP 154	PCP 155	4.4	12.6V CT @ 350MA	6.3V @ 700MA
	PCP 164	PCP 165	4.4	16V CT @ 260MA	8V @ 520MA
	PCP 174	PCP 175	4.4	20V CT @ 220MA	10V @ 440MA
	PCP 184	PCP 185	4.4	24V CT @ 180MA	12V @ 360MA
D	PCP 194	PCP 195	4.4	28V CT @ 160MA	14V @ 320MA
	PCP 204	PCP 205	4.4	34V CT @ 125MA	17V @ 250MA
	PCP 214	PCP 215	4.4	40V CT @ 110MA	20V @ 220MA
	PCP 224	PCP 225	4.4	56V CT @ 80MA	28V @ 160MA
	PCP 234	PCP 235	4.4	120V CT @ 35MA	60V @ 70MA
E	PCP 170	PCP 171	10	10V CT @ 1.0A	5V @ 2.0A
	PCP 156	PCP 157	10	12.6V CT @ 800MA	6.3V @ 1.6A
	PCP 166	PCP 167	10	16V CT @ 640MA	8V @ 1.28A
	PCP 176	PCP 177	10	20V CT @ 500MA	10V @ 1.0A
	PCP 186	PCP 187	10	24V CT @ 450MA	12V @ 900MA
F	PCP 196	PCP 197	10	28V CT @ 360MA	14V @ 720MA
	PCP 206	PCP 207	10	34V CT @ 300MA	17V @ 600MA
	PCP 216	PCP 217	10	40V CT @ 250MA	20V @ 500MA
	PCP 226	PCP 227	10	56V CT @ 180MA	28V @ 360MA
	PCP 236	PCP 237	10	120V CT @ 85MA	60V @ 170MA
G	PCP 180	PCP 181	24	10V CT @ 2.4A	5V @ 4.8A
	PCP 158	PCP 159	24	12.6V CT @ 2.0A	6.3V @ 4.0A
	PCP 168	PCP 169	24	16V CT @ 1.5A	8V @ 3.0A
	PCP 178	PCP 179	24	20V CT @ 1.2A	10V @ 2.4A
	PCP 188	PCP 189	24	24V CT @ 1.0A	12V @ 2.0A
H	PCP 198	PCP 199	24	28V CT @ 800MA	14V @ 1.6A
	PCP 208	PCP 209	24	34V CT @ 700MA	17V @ 1.4A
	PCP 218	PCP 219	24	40V CT @ 600MA	20V @ 1.2A
	PCP 228	PCP 229	24	56V CT @ 420MA	28V @ 840MA
	PCP 238	PCP 239	24	120V CT @ 200MA	60V @ 400MA

VA Size	Dimensions-Inches						Wt. Lb.
	W	L	H	A-6	A-8	B	
1.2	1.125	1.375	1.187	0.312	0.200	1.000	0.18
4.4	1.250	1.625	1.375	0.400	0.250	1.100	0.31
10	1.437	1.875	1.625	0.400	0.250	1.300	0.56
24	2.250	1.625	1.375	0.400	0.250	2.100	0.75

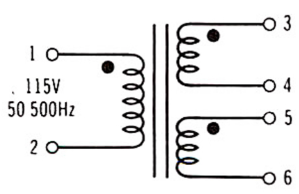
SINGLE PRIMARIES



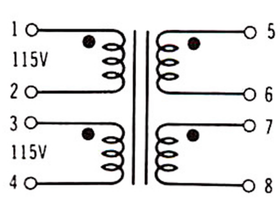
DUAL PRIMARIES



SINGLE PRIMARIES
Basic Circuit



DUAL PRIMARIES
Basic Circuit



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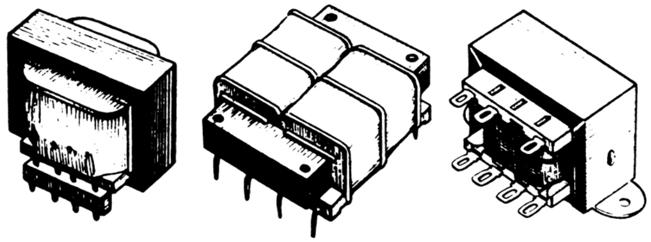
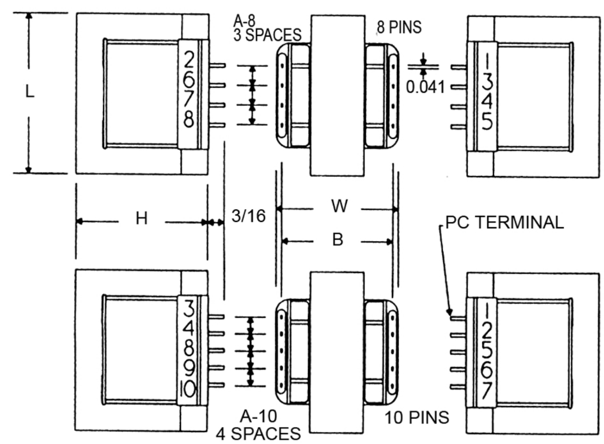
THORDARSON MEISSNER®

MICROPROCESSOR POWER TRANSFORMERS
WITH OUTPUTS FOR REGULATED 5.0 VDC & +/- 12 VDC OR +/- 15 VDC

PCP PFC CFP



Type PCP 8 Pin



Type PCP 10 Pin

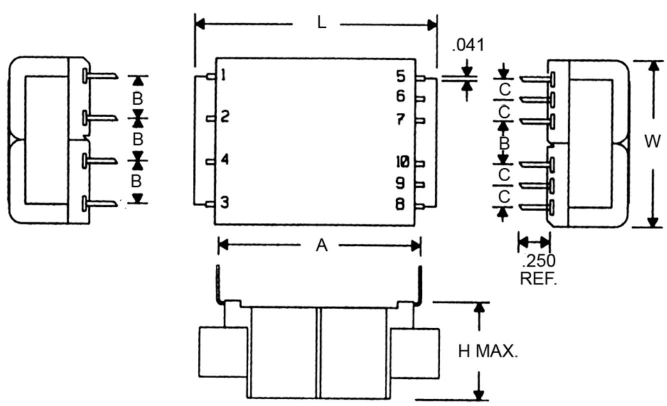
• PCP Series (115 and 115/230V 50/60 Hz Primary Types)

Thordarson Meissner Part Number		DC Output		
115V 8 Pin	115/230V 10 Pin	Regulator 1	Regulator 2	Size
PLP916	PCP917	5VDC 360MA	±12VDC 60MA	10VA
PLP918	PCP919	5VDC 360MA	±15VDC 50MA	10VA
PLP926	PCP927	5VDC 835MA	±12VDC 150MA	24VA
PLP928	PCP929	5VDC 835MA	±15VDC1300MA	24VA

VA Size	L	W	H	A-8 (8-Pin)	A-10 (10-Pin)	B	Wgt.	Optional Bracket No.	MW	MD
10	1.87″ 47.6mm	1.43″ 36.5mm	1.62″ 41.3mm	.250″ 6.4mm	.200″ 5.1mm	1.300″ 33.0mm	.56 lbs. .25kg	10-BR	1.64″ 41.6mm	1.12″ 28.6mm
24	1.62″ 41.3mm	2.25″ 57.2mm	1.37″ 34.9mm	.250″ 6.4mm	.200″ 5.1mm	2.100″ 53.3mm	.75 lbs. .34kg	24-BR	1.37″ 34.9mm	2.00″ 50.8mm

• PFC Series (Dual 115/230V Primary, 50/60Hz)

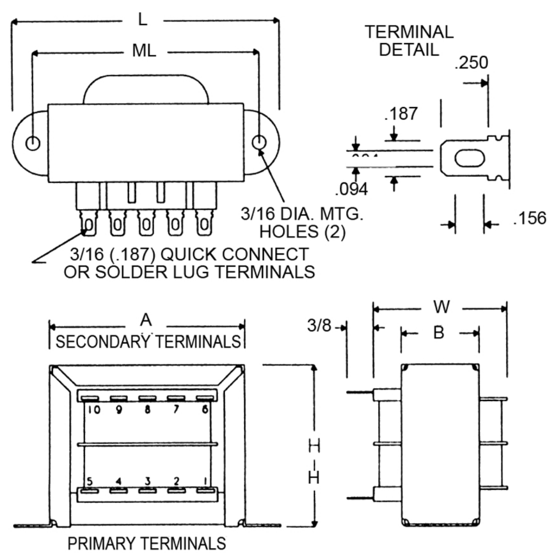
Thordarson Meissner Part Number		VA Size	DC Output Regulator 1	Regulator 2
—	PFC922	6	+5VDC@135MA	±12VDC@40MA
—	PFC932	6	+5VDC@135MA	±15VDC@35MA
PFT-12-28-T	PFC924	12	+5VDC@300MA	±12VDC@100MA
PFT-12-35-T	PFC934	12	+5VDC@300MA	±15VDC@85MA
PFT-24-28-T	PFC926	24	+5VDC@600MA	±12VDC@210MA
PFT-24-35-T	PFC936	24	+5VDC@600MA	±15VDC@170MA



VA Size	L	W	H	A	B	C	Wgt.
6	1.87″ 47.6mm	1.56″ 39.7mm	0.850″ 21.6mm	1.600″ 40.6mm	0.375″ 9.5mm	0.187″ 4.7mm	0.43 lbs. 0.20 kg
12	2.50″ 63.5mm	2.00″ 50.8mm	1.065″ 27.1mm	2.000″ 50.8mm	0.500″ 12.7mm	0.250″ 6.4mm	0.68 lbs 0.31 kg
24	2.875″ 73.1mm	2.250″ 57.2mm	1.375″ 35.0mm	1.90″ 48.26mm	0.60″ 15.24mm	0.53″ 13.46mm	0.94 lbs 0.43 kg

• CFP Series (115 and 115/230V 50/60 Hz Primary Types)

Thordarson Meissner Part Number		DC Output		
115V	115/230V	Regulator 1	Regulator 2	Size
CFP953	CFP952	5V @ 1.75A	±12V @ 210mA	30VA
CFP955	CFP954	5V @ 1.75A	±15V @ 175mA	30VA
CFP963	CFP962	5V @ 2.8A	±12V @ 350mA	50VA
CFP965	CFP964	5V @ 2.8A	±15V @ 280mA	50VA
CFP973	CFP972	5V @ 4A	±12V @ 600ma	100VA
CFP975	CFP974	5V @ 4A	±15V @ 500mA	100VA



VA (Size)	L	W	H	A	B	ML	Wgt.
30	3.25″ 82.6mm	1.75″ 31.8mm	1.93″ 49.2mm	2.31″ 58.7mm	1.06″ 26.9mm	2.81″ 71.4mm	1.1 lbs. 0.50 kg.
50	3.68″ 93.6mm	1.1″ 46.0mm	2.25″ 57.2mm	2.68″ 68.2mm	1.06″ 26.9mm	3.12″ 79.4mm	1.7 lbs. 0.77 kg.
100	4.03″ 102.4mm	2.25″ 57.2mm	2.56″ 65.1mm	3.06″ 77.7mm	1.31″ 33.3mm	3.56″ 90.5mm	2.75 lbs. 1.25 kg.

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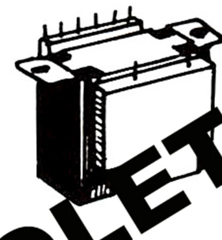
THORDARSON MEISSNER®

INTERNATIONAL OEM POWER TRANSFORMER (PEP SERIES) WITH ALL AGENCY APPROVALS (REPLACED WITH PAGE 8 PARTS)

- Meets IEC-65 & VDE safety standards
- Physical barriers between primary & secondary
- Double protection system — 4000 V Hipot



THIS PRODUCE IS OBSOLETE REPLACED WITH TIPC SERIES REFER TO PAGE 8

PEP Series • 115V/230V • 50/60Hz Primary

SECT	Part Number	VA Size	Sec. Connected In: Parallel VAC	Parallel A RMS	Series VAC	Series A RMS	Cir. No.	No.
A	10A009-T	0.7	Single† Secondary		10.0 CT	.050	1-230V†	A
A	10A010-T	0.7			16.0CT	.031	1-230V†	A
A	10A008-T	0.7			24.0CT	.021	1-115V†	A
B	11B001H-T	2.0	Single Secondary		24.0CT	.046	1	A
C	11D016H-T	9.5	8.0	1.200	16.0 CT	.600	2	B
C	11D017H-T	9.5	12.0	.800	24.0CT	.400	2	B
D	11E009H-T	15.0	12.0	1.040	24.0CT	.520	2	[illegible]

†The 0.7 VA Series is not available in Dual Primary Versions.

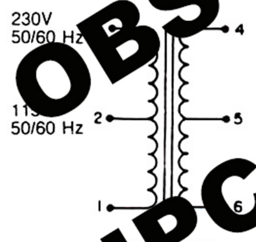
	Part Number	Secondary 1 VAC	Secondary 1 A RMS	Secondary 2 VAC	Secondary 2 A RMS	DC Output 1 CT FW VDC	DC Output 1 mAdc	DC Output 2 FW VDC	DC Output 2 1 mAdc	Cir. No.	Fig. No.
E	11E012H-T	9CT	.800	24.0CT	[illegible]	[illegible]	670	±15	170	3	[illegible]
E	11E013H-T	16CT	.550	[illegible]	[illegible]	+9♦	470	±21♦	120	[illegible]	C

+9VDC & ± 21 VDC output [illegible] input to ±5 VDC and ±15 VDC IC voltage [illegible] (circuit 4)

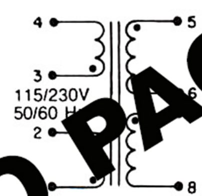
[illegible]	A	B	C	MC	[illegible]	[illegible]	F	G	N	Wt. Oz.
10[illegible]	1.10	1.16	1.32	1.1[illegible]2	[illegible]50	0.20	0.99	0.20	---	[illegible]
11B	1.26	1.44	1.69	[illegible]	0.6[illegible]	0.30	1.38	0.24	[illegible]	[illegible]
11D	1.69	1.99	2.[illegible]5	2.[illegible]	[illegible].08	0.30	1.77	---	[illegible]	[illegible]
11E	1.93	2.22	2.[illegible]	[illegible]	1.08	0.30	1.77	[illegible]	[illegible]	19.0

Physical Dimensions in Inches

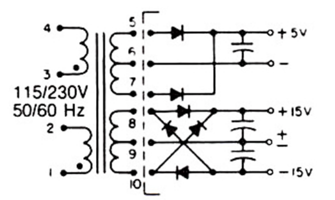
CIRCUIT SCHEMATICS



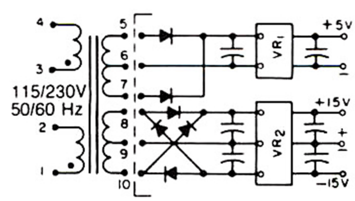
CIRCUIT 1



CIRCUIT 2



CIRCUIT 3



CIRCUIT 4

DIMENSIONS

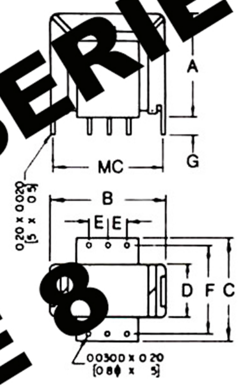


FIGURE A

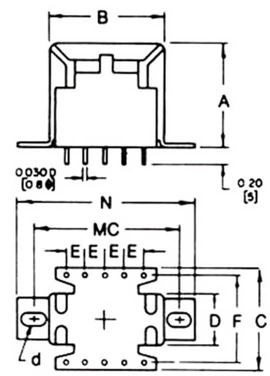


FIGURE B

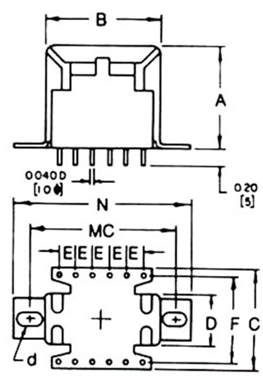


FIGURE C

Thordarson Meissner, Inc,
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115/230V 56/60HZ PRIMARY, 6/12, 12/24 & 24/48V SECONDARIES @ 12 TO 192VA, WITH LEADS & SOLDER LUGS

CONTROL TRANSFORMERS

Primaries 115/230 Volts, 50/60 Hz. — Solder Lug Terminations — with Dual Secondary Windings. The secondary voltages may be reduced to half rated by applying 115 Volt to 230 Volt primary.

SECT	Part Number	VA Cap.	Output From Two Secondary Windings (RMS)			Style	DIMENSIONS-INCHES					Wt. Lbs.
							CASE			MOUNTING		
			Individually	Parallel	Series		H	W	D	MW	MD	
A	23V50	12	6.0V @ 1.0A	6.0V @ 2.0A	12V @ 1.0A	BHV	2 3/8	2 7/8	1 11/16	2 3/8	---	1.0
	23V51	24	6.0V @ 2.0A	6.0V @ 4.0A	12V @ 2.0A	BHV	2 3/4	3 1/8	1 15/16	2 13/16	---	1.5
B	23V52	48	12.0V @ 2.0A	12.0V @ 4.0A	24V @ 2.0A	BHV	3 1/8	3 5/8	2 5/16	3 1/8	---	2.5
	23V53	96	12.0V @ 4.0A	12.0V @ 8.0A	24V @ 4.0A	LHV	3 1/2	2 7/8	3 1/16	2 1/4	2 5/8	4.2
	23V54	192	12.0V @ 8.0A	12.0V @ 16.0A	24V @ 8.0A	LHV	4 3/16	3 1/2	3 5/8	2 3/4	3	8.0
C	23V388	12	24.0V @ 0.25A	24.0V @ 0.5A	48V @ 0.25A	BHV	2 3/8	2 7/8	1 3/4	2 3/8	---	1.0
	23V389	24	24.0V @ 0.50A	24.0V @ 1.0A	48V @ 0.50A	BHV	2 3/4	3 1/8	2	2 13/16	---	1.5
	23V390	48	24.0V @ 1.0A	24.0V @ 2.0A	48V @ 1.0A	BHV	3 1/8	3 5/8	2 3/8	3 1/8	---	2.5
	23V391	96	24.0V @ 2.0A	24.0V @ 4.0A	48V @ 2.0A	LHV	3 7/16	2 7/8	3 1/8	2 1/4	2 1/4	4.2
	23V392	192	24.0V @ 4.0A	24.0V @ 8.0A	48V @ 4.0A	LHV	4 3/16	3 1/2	3 3/4	2 3/4	3	8.0

MINIATURIZED CONTROL TRANSFORMERS:

50/60 Hz. Lead wire terminations.

SECT	Part Number	Pri. Volts	Sec. Volts	Secondary Amps.			Style	Dimensions-Inches				Wt. Lbs.
								Case			Mounting	
				RMS	Bridge ††	Half-Bridge ††		H	W	D	MW	
D	23V252	117	12	0.15	.100DC	.050DC	BAH	1 1/4	2 1/16	1 1/4	1 3/4	0.3
	23V253	117	12	0.35	.200DC	.110DC	BAH	1 3/8	2 13/16	1 7/16	2	0.4
	23V254	117	12	0.70	.450DC	.225DC	BAH	1 5/8	2 13/16	1 5/8	2 3/8	0.6
	23V255	117	12	1.20	.750DC	.375DC	BAH	2	3 1/4	1 3/4	2 13/16	0.9
E	23V256	117	24CT	0.085	.065DC	.135DC	BAH	1 1/4	2 1/16	1 1/2	1 3/4	0.3
	23V257	117	24CT	0.200	.135DC	.275DC	BAH	1 3/8	2 3/8	1 1/2	2	0.4
	23V258	117	24CT	0.400	.270DC	.550DC	BAH	1 5/8	2 13/16	1 5/8	2 3/8	0.8
	23V259	117	24CT	0.700	.450DC	.925DC	BAH	2	3 1/4	1 3/4	2 13/16	0.9
F	23V401	230	24CT	0.085	.065DC	.135DC	BAH	1 1/4	2 1/16	1 3/8	1 3/4	0.3
	23V402	230	24CT	0.200	.135DC	.275DC	BAH	1 3/8	2 3/8	1 1/2	2	0.4
	23V404	230	24CT	0.700	.450DC	.925DC	BAH	2	3 1/4	1 3/4	2 13/16	0.9
G	23V379	117	28CT	0.085	.065DC	.135DC	BAH	1 1/4	2 1/8	1 1/4	1 3/4	0.3
	23V381	117	28CT	0.300	.220DC	.420DC	BAH	1 5/8	2 13/16	1 5/8	2 3/8	0.6
	23V382	117	28CT	0.800	.520DC	1.100DC	BAH	2	3 1/4	2 1/8	2 13/16	1.0
H	23V384	117	36CT	0.065	.050DC	.090DC	BAH	1 1/4	2 1/8	1 3/8	1 3/4	0.3
	23V385	117	36CT	0.135	.100DC	.180DC	BAH	1 3/8	2 3/8	1 7/16	2	0.4
	23V386	117	36CT	0.300	.220DC	.420DC	BAH	1 5/8	2 13/16	1 5/8	2 3/8	0.6
	23V387	117	36CT	0.550	.420DC	.750DC	BAH	2	3 1/4	1 7/8	2 13/16	1.0
I	23V405	230	36CT	0.065	.050DC	.090DC	BAH	1 1/4	2 1/8	1 3/8	1 3/4	0.3

†† All values of output DC are based on a capactive load.

LOW CURRENT CONTROL TRANSFORMERS:

117 Volt 50/60 Hz. with three isolated 12 Volt Secondaries (one with center tap).

SECT	Part Number	PRI. VOLTS	SECONDARY VOLTS	Amps. (RMS) Each Sec.	Style	Dimensions-Inches				Wt. Lbs.
						Case			Mounting	
						H	W	D	MW	
J	23V236	117	THREE 12V WINDINGS WITH 1 CT	.10	BAV	1 3/4	2	1 1/2	1 23/32	0.4
	23V237	117	THREE 12V WINDINGS WITH 1 CT	.15	BAV	2	2 3/8	1 3/4	2	0.6
	23V238	117	THREE 12V WINDINGS WITH 1 CT	.25	BAV	2 3/8	2 7/8	2	2 3/8	0.9
	23V239	117	THREE 12V WINDINGS WITH 1 CT	.50	BAV	2 3/8	2 7/8	2 1/4	2 3/8	1.3

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RECTIFIER TRANSFORMER

117V 50/60 Hz. Primary - Lug Terminations.

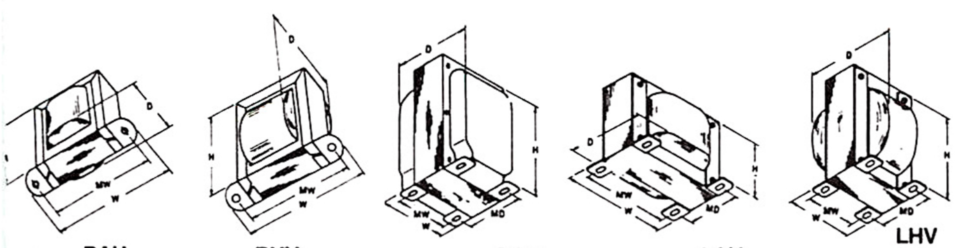
Each Selenium Rectifier Transformer listed in this section has terminal numbering and winding arrangement as shown in the schematics below. Primary connections are made to terminals 1, 2, 3, 4, 5, 6, and 7. The winding connected to terminals 5, 6, and 7 is a separate isolated primary winding, designed for the purpose of extending the voltage range of the transformer. This is accomplished by connecting the winding in series aiding or in series bucking with terminals 2, 3, or 4. Two identical secondary windings are connected to terminals 8 and 9 and to terminals 10 and 11. Complete connection data supplied with each unit. **Rectifier Not Included.**

SECT	Part Number	Fullwave Rectifier Circuits	Under Load Secondary AC Volts (approx)	Res. and Ind. Load		Capacitive Load		Recommend Capacitor	Style	Dimensions-Inches					Wt. Lbs.
										Case			Mounting		
				DC Volts	DC Amps	DC Volts	DC Amps			H	W	D	MW	MD	
	23V60	CT	11.7 to 29.4	3.3 to 11.2	2.0	3.5 to 13.8	2.0	1000µF	LHV	3⅛	2⅝	2⅞	2	2⅛	2.5
		Bridge	11.1 to 28.5	7.4 to 23.0	1.25	8.7 to 30.0	1.25	500µF							
	23V61	CT	12.2 to 29.7	3.7 to 11.1	4.0	4.0 to 14.7	4.0	2000µF	LHV	3 7/16	2⅞	3⅛	2¼	2½	3.8
		Bridge	12.2 to 29.7	8.9 to 24.3	2.0	10.8 to 33.0	2.0	1000µF							
	23V503	CT	12.2 to 29.7	3.7 to 11.1	4.0	4.0 to 14.7	4.0	2000µF	LHV	3 7/16	2⅞	2⅞	2¼	2⅜	3.9
		Bridge	112.2 to 29.7	8.9 to 24.3	2.0	10.8 to 33.0	2.0	1000µF							
A	23V62	CT	11.7 to 29.2	4.3 to 12.0	8.0	4.5 to 14.5	8.0	4000µF	LHV	3 13/16	3 3/16	4⅛	2½	3⅜	7.8
		Bridge	11.8 to 29.2	8.8 to 24.0	4.0	11.4 to 32.4	4.0	2000µF							
	23V504	CT	11.7 to 29.2	4.3 to 12.0	8.0	4.5 to 14.5	8.0	4000µF	LHV	3 13/16	3 3/16	3⅝	2½	2⅞	6.3
		Bridge	11.8 to 29.2	8.8 to 24.0	4.0	11.4 to 32.4	4.0	2000µF							
	23V63	CT	12.0 to 29.8	3.4 to 11.5	12.0	3.9 to 14.4	12.0	6000µF	LHV	4¼	3 9/16	4¼	2¾	3¼	9.0
		Bridge	12.0 to 29.6	8.4 to 24.0	6.0	10.0 to 32.0	6.0	3000µF							
	23V64	CT	12.2 to 29.7	3.9 to 11.4	15.0	4.4 to 14.5	15.0	7500µF	LHV	4 9/16	3⅞	5⅜	3	4⅜	13.5
		Bridge	12.1 to 29.2	8.7 to 23.7	8.0	10.4 to 32.5	8.0	4000µF							
	23V66	CT	12.2 to 29.1	3.9 to 11.4	22.5	4.0 to 14.3	22.5	11250µF	LHV	5⅜	5⅜	5	3½	3⅝	14.0
		Bridge	12.2 to 29.1	8.6 to 23.5	12.0	10.4 to 32.5	12.0	6000µF							
	23V434	CT	12.2 to 29.0	3.9 to 11.4	22.5	4.0 to 14.3	22.5	11250µF	LHV	5 5/16	5 5/16	5⅞	3½	4¼	20.5
		Bridge	12.2 to 29.0	8.6 to 23.5	12.0	10.8to 33.0	12.0	6000µF							
	23V406	CT	23.5 to 60.0	9.0 to 25.0	1.0	11.0 to 34.0	1.0	1500µF	LHV	3⅛	3⅛	3⅜	2	2¼	2.7
B		Bridge	23.5 to 60.0	20.5 to 53.0	0.5	27.0 to 74.0	0.5	600µF							
	23V407	CT	24.0 to 59.0	9.0 to 25.0	2.0	11.5 to 34.0	2.0	2500µF	LHV	3 7/16	3 7/16	3 11/16	2¼	2½	4.1
		Bridge	24.5 to 59.5	20.5 to 52.5	1.0	28.5 to 73.5	1.0	1500µF							
	23V408	CT	23.0 to 58.0	9.0 to 25.0	4.0	11.0 to 33.5	4.0	3000µF	LHV	3 13/16	3 13/16	4½	2½	3⅛	6.9
		Bridge	23.5 to 58.0	20.0 to 51.5	2.0	27.0 to 72.5	2.0	15000µF							
	23V65	Bridge	25.0 to 53.0	18.0 to 44.0	8.0	25.0 to 63.0	8.0	4300µF	CHV	5⅜	5⅜	6¾	3½	5⅛	25.0
	23V67	Bridge	25.0 to 53.0	18.0 to 43.5	12.0	24.0 to 60.0	12.0	4300µF	CHV	6⅝	6⅝	6½	4¼	4½	34.0

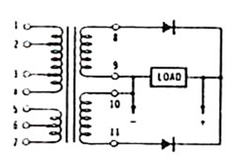
TRANSISTOR POWER TRANSFORMERS for Transistor Power Supplies

Primaries 117 Volt 50/60 Hz. except 23V394/23V396 @ 60 Hz. only. Lead terminations, except 23V396 with solder lugs on secondary

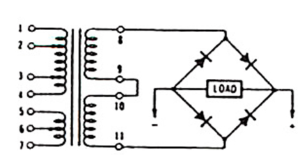
SECT	Part Number	Secondary #1		Secondary #2		Style	Dimensions-Inches					Wt. Lbs.
							Case			Mounting		
		Volts	Amps RMS	RMS Volts	Amps RMS		H	W	D	MW	MD	
	21F190	30.0CT	3.0	---	---	GGV	3½	2 13/16	3⅝	2¼	2 7/16	4.2
C	23V396•	18/20/22••	2.0	---	---	BHV	3⅛	3 9/16	2¼	3⅛	---	2.5
	23V377	50.0CT	1.0	---	---	GGV	3⅛	2½	2¾	2	1¾	2.3
	23V378	54.0CT	0.5	6.3	.5	GGV	2⅝	2¼	2 9/16	1¾	1⅝	1.7
	23V122	80.0CT	1.0	---	---	GGV	3½	2 13/16	3⅝	2¼	2⅜	4.5



BAH BHV BAV GGV LAH LHV LAV CHV



FULL WAVE CENTER TAP



FULL WAVE BRIDGE

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POWER TRANSFORMERS - PLATE AND FILAMENT FOR CAPACITOR INPUT SYSTEMS

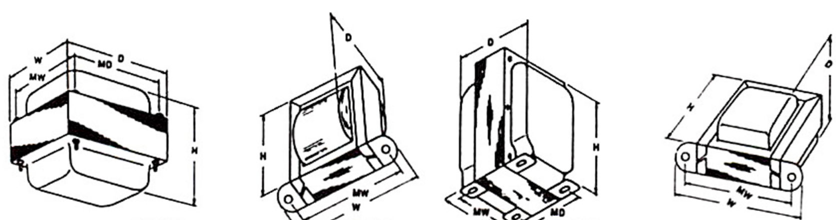
Electrical tolerance, dielectric strength, temperature rise and construction are per U.L. Class A materials (maximum 105 degree C. operating temperature) are used in all transformers.
Transformers are designed for full-wave C.T. rectification with capacitor input filter. If choke input filter is used, allow for a DC current increase of 30%. Transformers are listed in ascending order of plate-supply voltages

FOR CAPACITOR INPUT SYSTEMS:

Primaries 117 Volts, 50/60 HZ. except • which are 60 Hz. only. Terminations - Leads

SECT	Part Number	Plate Winding		Rectifier Filament		Other Windings		Style	Dimensions-Inches					Wt. Lbs.
									Case			Mounting		
		AC Volts	DCMA	Volts	Amps.	Volts	Amps.		H	W	D	MW	MD	
A	26R37	125✧	15	---	---	6.3	.6	BAV	2	2⅜	1¾	2	---	.7
A	22R39	125-0-125	25	---	---	6.3	1.0	BAV	2⅜	2⅞	1⅞	2⅜	---	1.0
A	24R166	125-0-125	25	---	---	12.6	.6	BAV	2⅜	2⅞	1⅞	2⅜	---	1.0
A	26R60•	150✧	25	---	---	6.3CT	.5	BGV	2	2⅜	1 13/16	2	---	.7
A	24R168•	150✧	25	---	---	12.6CT	.3	BGV	2	2⅜	1 13/16	2	---	.8
B	22R94	190-160-0	70	6.3	0.6	6.3CT	3.0	GGV	3⅛	2½	2¾	2	1¾	2.8
		160-190				6.3	.6							
B	26R164	200-0-200	110	---	---	6.3	2.0	GGV	3⅛	2½	3¼	2	2¼	3.0
						6.3CT	4.0							
B	24R10	220-0-220	50	---	---	6.3	.6	GGV	3⅛	2½	2⅝	2	1⅝	2.2
						25.2	.5							
B	24R11U	230-0-230	50	---	---	6.3	2.5	GGV	3⅛	2½	2⅝	2	1⅝	2.2
B	24R00	240-0-240	40	5.0	2.0	6.3CT	2.0	AGF	2⅝	3	2½	2½	2	2
C	24R19U	240-0-240	55	5.0	2.0	6.3CT	2.0	GGV	3⅛	2½	2¾	2	1¾	2.5
C	24R12U	240-0-240	70	---	---	6.3	3.0	GGV	3⅛	2½	2⅞	2	1⅞	2.6
C	24R89	250-0-250	10	---	---	6.3	.6	BGV	2⅜	2⅞	2⅛	2⅜	---	1.0
						6.3	1.2							
C	24R90	250-0-250	20	---	---	6.3	.6	BGV	2¾	3⅛	2½	2 13/16	---	1.5
						6.3	1.2							
D	24R09U	250-0-250	70	5.0	2.0	6.3CT	2.5	GGV	3⅛	2½	3⅛	2	2 1/16	3.2
D	24R13	260-0-260	90	5.0	2.0	6.3CT	3.0	AGF	3⅝	2⅞	3⅜	2¼	2 13/16	4.0
D	26R31	260-0-260	90	---	---	6.3	4.0	AGF	3½	2⅞	3½	2¼	2 13/16	3.5
D	26R31U	260-0-260	90	---	---	6.3	4.0	GGV	3⅛	2½	3¼	2	2 3/16	4.0
D	24R20U	270-0-270	120	5.0	3.0	6.3CT	3.5	GGV	3⅞	3⅛	3½	2½	2 3/16	5.0
E	26R160•	270-0-270	260	5.0	3.0	6.3	8.8	GGV	3⅞	3⅛	3½	2½	2¼	5.5
E	26R161•	280-0-280	300	5.0/3.0	4.5	6.3	10.0	GGV	3⅞	3⅛	4⅝	2½	3¼	7.9
		250-0-250	---	---	---	24.0	1.2		---	---	---	---	---	---
E	24R96	300-0-300	65	---	---	6.3CT	2.7	GGV	3⅛	2½	2¾	2	1 11/16	2.7
E	24R08U	325-0-325	55	5.0	2.0	6.3CT	2.0	GGV	3⅛	2½	2⅞	2½	2⅛	5.7
E	24R87	325-0-325	150	5.0	3.0	6.3CT	5.0	GGV	3⅞	3⅛	3⅞	2½	2 9/16	5.8
E	26R45	328-0-328	270	5.0	3.0	12.6CT	5.25	GGV	4⅝	4⅜	4⅜	3	3⅛	9.5
F	24R40U	350-0-350	90	5.0	2.0	6.3CT	3.0	GGV	3½	2⅞	3⅝	2¼	2⅜	4.5
F	24R40	350-0-350	90	5.0	2.0	6.3CT	3.0	AGF	3¾	2 13/16	3⅜	2¼	2 13/16	4.5
F	24R22U	360-0-360	120	5.0	3.0	6.3CT	3.5	GGV	3⅞	3⅛	3¾	2½	2 7/16	5.4
F	24R06U	375-0-375	150	5.0	3.0	6.3CT	4.7	GGV	4¼	3 7/16	4	2¾	2 13/16	6.2
F	24R07U	400-0-400	200	5.0	3.0	6.3CT	5.0	GGV	4½	3¾	4½	3	3 15/16	9.2
F	24R27	600-0-600	200	5.0	3.0	6.3	3.0	GGV	4½	3 13/16	4¼	3	3 1/16	8.5
	---	---	---	---	---	6.3	3.0	---	---	---	---	---	---	---

✧ For use in Half Wave Circuit • 60 Hz. only All secondary A.C. voltages ± 3%



AGF BAV GGV BGV

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THORDARSON MEISSNER®

POWER TRANSFORMERS - PLATE AND FILAMENT FOR CATHODE RAY TUBES, PHOTO FLASH & POWER SUPPLY APPLICATIONS

FOR CATHODE RAY TUBES:

Primaries 117 Volts 50/60 Hz.
Lead Terminations Except 24R77 with lugs.

SECT	Part Number	Plate Winding		Rectifier Filament		Other Windings		Style	Dimensions-Inches					Wt. Lbs.
									Case			Mounting		
		A.C. Volts	DCMA	Volts	Amps.	Volts	Amps.		H	W	D	MW	MD	
A	24R91◑	1800	4.0	2.5	1.75	-	-	GGV	3 1/8	2 1/2	3	2	1 15/16	1.8
	24R77◑	1600	3.0	-	-	6.3/5/2.5	1.0	HKF	3 1/2	2 9/16	3 1/16	2	2 1/2	3.5
		-	-	-	-	6.3/5/2.5	3.0	-	-	-	-	-	-	
	24R30	2400	5.0	2.5	2.0	2.5	2.0	GGV	4 1/4	3 7/16	3 7/8	2 3/4	2 11/16	5.5

FOR 100 WS ELECTRONIC PHOTOFLASH:

Primaries 105/115/125 Volts 60 Hz.

SECT	Part Number	A.C. Volts	DCMA	Volts	Amps.	Volts	Amps.	Style	H	W	D	MW	MD	Wt. Lbs.
B	24R107●	400	20	-	-	-	-	BAV	2 3/8	2 7/8	2	2 3/8	-	1.4
		PHOTOFLASH—Charges 1050 mfd. to 450 V.D.C.						-	-	-	-	-	-	-
	22R115	Trigger Coil for use with 24R107 Ratio 1 to 35					-	A	-	3/4	9/16	-	-	-

POWER SUPPLY TRANSFORMERS

For periphal computer accessories.

For use in power supplies delivering regulated positive and negative D.C. voltage for Op-Amps and separate 5 to 6 Volt regulated D.C. voltage for Logic circuits. Capable of continuous duty at operating temperatures up to 105 Degree C. Primaries are 120 volts, 50-60 Hertz. All transformers have electrostatic shield grounded to core internally. Terminations-lugs.

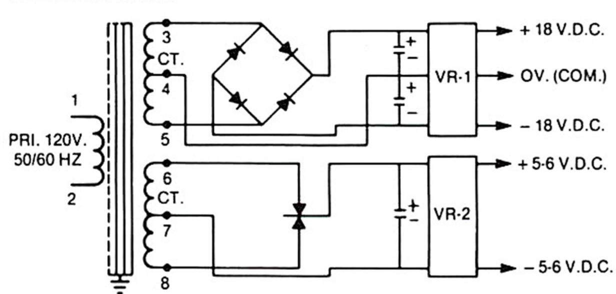
SECT	Part Number	(RMS) Sec. #1 A.C.		(RMS) Sec. #1 A.C.				Dimensions-Inches					Wt. Lbs.
								Case		Mounting			
		Volts	Amps.	Volts	Amps.	Output Ratings	Style	H	W	D	MW	MD	
C	23V506	35.0CT	.21	-	-	see chart below	BHV	2 3/8	2 7/8	1 5/8	2 3/8	---	1.0
	23V507	33.0CT	.35	-	-	see chart below	BHV	2 3/4	3 1/8	1 7/8	2 13/16	---	1.4
	23V508	33.0CT	.21	18CT	1.25	see chart below	LHV	3 1/8	2 1/2	2 5/8	2	2 3/8	3.0
	23V509	34.0CT	.35	19CT	2.50	see chart below	LHV	3 7/16	2 13/16	2 7/8	2 1/4	2 3/8	3.9

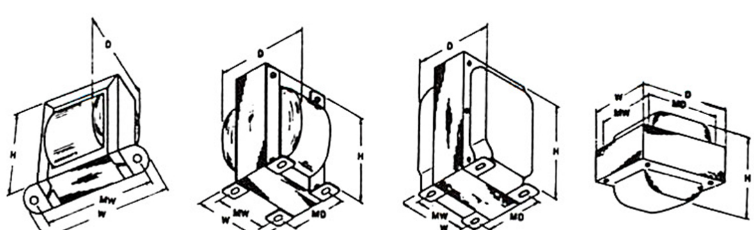
◑ For use in Half-Wave Circuits. ● 60 Hz. only. All secondary A.C. voltages ±3%.

D.C. OUTPUT RATINGS

REFERENCE	Part Number	Secondary No. 1 FWB Rectifier	Input Filter Cap.	Secondary No. FWCT Rectifier	Input Filter Cap.
	23V506	Pos. 21V. D.C. at 150MA. D.C. Neg. 21V. D.C. at 150MA. D.C.	500MF 500MF	- -	- -
	23V507	Pos. 21V. D.C. at 250MA. D.C. Neg. 21V. D.C. at 250MA. D.C.	500MF 500MF	- -	- -
	23V508	Pos. 21V. D.C. at 150MA. D.C. Neg. 21V. D.C. at 150MA. D.C.	500MF 500MF	8.5V DC @ 2.0 AMPS DC	1000µF -
	23V509	Pos. 21V. D.C. at 250MA. D.C. Neg. 21V. D.C. at 250MA. D.C.	500MF 500MF	8.0V DC @ 4.0 AMPS DC	3000µF -

TYPICAL CIRCUIT USED WITH 23V508&509 POWER TRANSFORMERS





BAV BHV — LHV — GGV — HKF

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THORDARSON MEISSNER®

MINIATURE AUDIOS .300 WATT GROUP

Lead terminations - minimum length: 4 inches.

SECT	Part Number	Application	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Max. Pri. DCMA	Audio Watts	D.C. Resistance in Ohms Pri.	D.C. Resistance in Ohms Sec.	Style	Outline Dimensions Case H	Outline Dimensions Case W	Outline Dimensions Case D	Outline Dimensions Mounting MW	Wt. Lbs.
A	TR111	Output	100CT	4/8/16	---	.3	11	1.5	BAH	13/16	1 5/8	13/16	1 3/8	.07
A	TR113	Output	400CT	4/8/16	---	.3	35	1.5	BAH	13/16	1 5/8	13/16	1 3/8	.07
A	TR114	Output	500CT	4/8/16	---	.3	47	0.85	BAH	13/16	1 5/8	13/16	1 3/8	.07
A	TR1	Output	500CT	500CT	---	.3	40	55.0	BAH	13/16	1 5/8	13/16	1 3/8	.07
A	TR115	Output	700CT	4/8/16	---	.3	80	1.2	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR116	Output	1000	4/8/16	---	.3	140	1.9	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR117	Output	2500	4/8/16	---	.3	180	1.2	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR118	Output	3000	4/8/16	---	.3	200	1.2	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR24	Interstage	100000	1500CT	---	.3	3000	50.0	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR119	Output	200000CT	1000CT	---	.3	2000	130.0	BAH	13/16	1 5/8	13/16	1 3/8	.07
B	TR36	Output	500000	200CT	---	.3	7000	9.0	BAH	13/16	1 5/8	13/16	1 3/8	.07

TRANSISTOR TRANSFORMERS FOR AUDIO APPLICATIONS

All units terminate with color coded leads, minimum length 4 inches.

SECT	Part Number	Application	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Max. Pri. DCMA	Audio Watts	D.C. Resistance in Ohms Pri.	D.C. Resistance in Ohms Sec.	Style	Outline Dimensions Case H	Outline Dimensions Case W	Outline Dimensions Case D	Outline Dimensions Mounting MW	Wt. Lbs.
C	TR300	Output	20CT	8	500	10.0	0.55	0.35	BAH	1 3/8	2 3/8	1 5/8	2	.45
C	TR196	Output	48CT	8/16	275	5.0	5.5	2.2	BAH	1 15/16	3 1/4	1 7/8	2 13/16	1.00
C	TR60⋈	Output	48CT	3.2/8/16	500	10.0	3.4	2.2	BAV	2 3/8	2 7/8	1 3/4	2 3/8	.90
C	TR296	Interstage	100CT	10CT	100	0.25	4.8	0.63	BAH	1 1/4	2 1/16	1 3/8	1 3/4	.25
D	TR195	Driver	100	100CT	100	0.5	11	11.0	BAH	1 5/8	2 13/16	1 1/2	2 3/8	.60
D	TR65	Driver	100	200CT	200	0.5	7.0	18.0	BAH	1 1/4	2 1/16	1 3/8	1 3/4	.20
D	TR257	Interstage	100	1000CT	100	1.0	7.5	60.0	BAH	1 3/8	2 3/8	1 1/2	2	.35
D	TR66	Driver	500CT	200CT	50	0.5	40	18.0	BAH	1 1/4	2 1/16	1 3/8	1 3/4	.20
E	TR295	Interstage	600CT	10	20	0.05	45	0.8	BAH	13/16	1 5/8	13/16	1 3/8	.07
E	TR258	Output	2000CT	4/8/16	10	0.2	260	4.5	BAH	13/16	1 5/8	13/16	1 3/8	.08
E	TR260	Driver	2000CT	200CT	10	0.1	748	120.0	BAH	11/16	1 9/32	11/16	1 1/16	.05
E	TR261	Driver	20000CT	2000CT	1	0.1	2350	330.0	BAH	13/16	1 5/8	13/16	1 3/8	.07

⋈ Lugs used on secondary.

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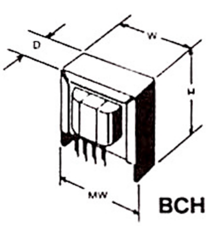
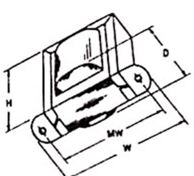
MINIATURE AUDIOS .150 WATT GROUP

Lead terminations - minimum length: 4 inches.

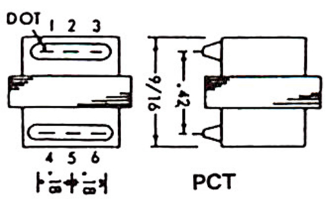
SECT	Part Number	Application	Impedance in Ohms		D.C. Res in Ohms		Style	Outline Dimensions			Mounting		Wt. Lbs.
			Pri.	Sec.	Pri.	Sec.		H	W	D	MW	MD	
A	TR12	Interstage	100CT	10CT	13	1.5	BCH	11/16	13/16	5/8	13/16	---	.03
	TR101	Output	350CT	4/12	44	1.11	BCH	11/16	13/16	5/8	13/16	---	.03
	TR19	Output	400CT	11	30	1.5	BCH	11/16	13/16	5/8	13/16	---	.03
	TR5	Driver	500CT	150CT	32	16.5	BCH	11/16	13/16	5/8	13/16	---	.03
B	TR106	Input	1200	20000CT	145	2000	BCH	11/16	13/16	5/8	13/16	---	.03
	TR105	Output	1250	4/12	145	1.8	BCH	11/16	13/16	5/8	13/16	---	.03
	TR107	Output	2500	4/16	400	2.7	BCH	11/16	13/16	5/8	13/16	---	.03
C	TR2	Interstage	5000CT	7500CT	570	850	BCH	11/16	13/16	5/8	13/16	---	.03
	TR3	Interstage	5000CT	10000CT	570	1250	BCH	11/16	13/16	5/8	13/16	---	.03
	TR10	Interstage	5000CT	45000	300	1225	BCH	11/16	13/16	5/8	13/16	---	.03
	TR108	Interstage	5000CT	80000CT	650	6200	BCH	11/16	13/16	5/8	13/16	---	.03
	TR109	Output	10000CT	4/8/16	1250	2.9	BCH	11/16	13/16	5/8	13/16	---	.03
	TR23	Output	10000	200CT	980	12	BCH	11/16	13/16	5/8	13/16	---	.03
D	TR7	Interstage	10000	2000CT	775	270	BCH	11/16	13/16	5/8	13/16	---	.03
	TR6	Interstage	10000	3000CT	810	650	BCH	11/16	13/16	5/8	13/16	---	.03
	TR34	Input	50000	30CT	1500	2.5	BCH	11/16	13/16	5/8	13/16	---	.03
	TR26	Input	50000	500CT	1500	30.0	BCH	11/16	13/16	5/8	13/16	---	.03
MINIATURE AUDIOS FOR PRINTED CIRCUITS .150 WATT GROUP (FIG. A)													
E	TR315	Driver	500CT	150CT	65	20	PCT	11/16	3/4	9/16	---	---	.03
	TR314	Driver	1500	500CT	97	39	PCT	11/16	3/4	9/16	---	---	.03
	TR313	Driver	5000CT	10000CT	600	1150	PCT	11/16	3/4	9/16	---	---	.03
	TR317	Interstage	10000	2000CT	708	267	PCT	11/16	3/4	9/16	---	---	.03
	TR316	Interstage	10000	3000CT	860	660	PCT	11/16	3/4	9/16	---	---	.03
MINIATURE AUDIOS FOR PRINTED CIRCUITS .300 WATT GROUP (FIG. B)													
F	TR311	Driver	500CT	500CT	40	48	PCT-3	13/16	1	7/8	---	---	.07
	TR482	Driver	20000CT	2000CT	2300	325	PCT-3	13/16	1	7/8	---	---	.07
	TR338	Input	200000	1000	3000	30	PCT-3	13/16	1	7/8	---	---	.07



BCH

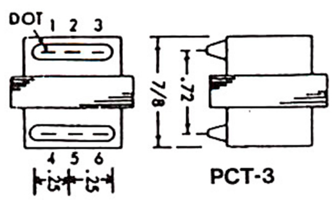


BAH



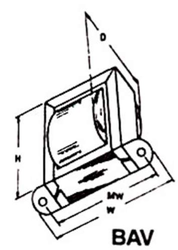
PCT

FIG. A



PCT-3

FIG. B



BAV

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SMOOTHING CHOKES:

Inductance Tolerance - minus 15 plus 50% at 10 Volts 60 Hz. Lead Terminations

SECT	Part Number	Inductance (Henries)	DCMA	DC Res OHMS	Insulation Test RMS Volts	Style	Dimensions-Inches: Case H	Case W	Case D	Mounting MW	Mounting MD	Wt. Lbs.
A	20C50	350.0	5	5500	2000	BAH	2	3 1/4	1 7/8	2 13/16	---	1.0
	20C43	20.0	15	900	1500	BAH	1 5/8	2 7/8	1 1/2	2 3/8	---	0.8
	20C180	12.0	30	400	2000	BAH	1 3/8	2 3/8	1 5/16	2	---	0.5
B	20C82	3.5	50	200	2500	BAH	1 5/8	2 7/8	1 1/2	2 3/8	---	0.8
	20C84	7.0	50	550	1500	BAH	1 3/8	2 3/8	1 1/4	2	---	0.5
	20C81	7.5	50	400	1500	BAH	1 5/8	2 7/8	1 1/2	2 3/8	---	0.8
	20C66	9.0	50	500	2500	BAH	1 5/8	2 7/8	1 1/2	2 3/8	---	0.8
	26C87	16.0	50	580	1500	BAH	2	3 1/4	1 3/4	2 13/16	---	1.2
C	20C53	12.0	80	375	2500	BAH	2	3 1/4	2 1/8	2 13/16	---	1.5
	26C86	15.0	75	400	1500	BAH	2 3/8	3 3/4	2	3 1/8	---	1.5
	20C67	5.0	100	300	2500	TAV	2 3/4	2 1/4	2 11/16	2 3/8	1 1/2	1.5
	26C85	10.5	110	225	3000	BAH	2 5/8	4	2 1/4	3 9/16	---	2.2
	26C88	2.5	130	100	2000	BAH	2	3 1/4	1 3/4	2 13/16	---	1.2
D	26C89	2.3	150	60	2500	BAH	2	3 1/4	1 3/4	2 13/16	---	1.0
	26C41	1.5	200	90	1500	BAH	1 5/8	2 7/8	1 1/2	2 3/8	---	0.8
	26C91	2.8	300	60	1500	BAH	2 5/8	4	2 1/4	3 9/16	---	2.5
E	26C78	1.0	350	35	1500	BAH	2	3 1/4	2	2 13/16	---	1.4
	26C92	0.8	375	25	1500	BAH	2 3/8	3 3/4	2	3 1/8	---	1.5
	26C81	0.32	600	10	1500	BAH	2	3 1/4	2	2 13/16	---	1.3

HIGH CURRENT CHOKES:

Inductance measured at 1 Volt, 60 Hz. Lead wire terminations except ■ with lugs.

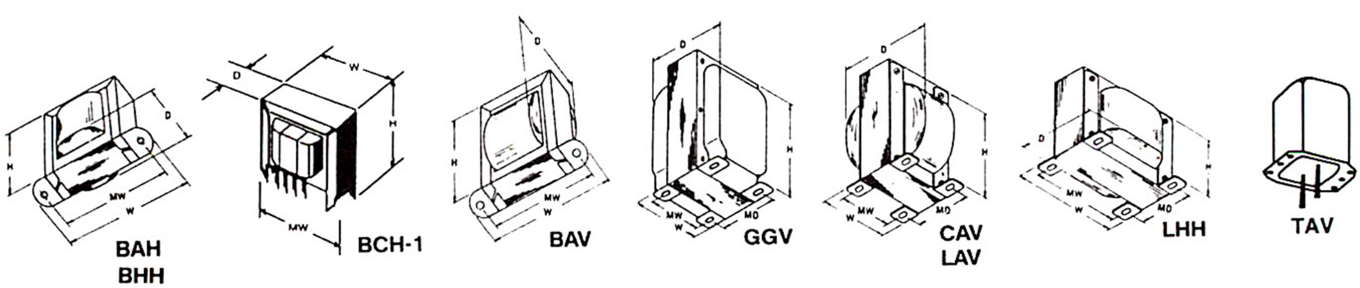
SECT	Part Number	Inductance	DCMA	DC Res OHMS	Insulation Test RMS Volts	Style	H	W	D	MW	MD	Wt. Lbs.
F	TR-153	3.0mH	1.0A	0.25	1000	BCH-1	1 1/4	1 1/2	1	1 1/4	7/16	0.2
	TR-154	11.0mH	1.0A	0.75	1000	BCH-1	1 1/4	1 1/2	1	1 1/4	7/16	0.2
	20C00	35.0mH	2.0A	0.75	1500	LAV	2 1/4	2 11/16	2 1/4	2 3/16	2	1.8
	20C26	80.0mH	2.5A	0.61	1500	LAV	3 7/8	3 1/8	3 9/16	2 1/2	3	7.0
		or 20.0mH	5.0A	0.15								
	20C02	10.0mH	8.0A	0.15	1500	LAH	3 1/4	3 3/4	3 3/16	3 1/8	2 1/2	5.3
	20C03	10.0mH	12.5A	0.11	1500	LAH	3 7/16	4 1/8	3	3 7/16	2 3/8	6.0
	20C100■	5.0mH	22.5A	0.03	1500	LHH	3 7/8	4 1/2	4 1/2	3 3/4	3 1/2	11.9

MINIATURIZED HIGH CURRENT CHOKES:

Inductance measured at 1 Volt, - 60 Hz. Lead wire terminations

SECT	Part Number	Inductance	DCMA	DC Res OHMS	Insulation Test RMS Volts	Style	H	W	D	MW	MD	Wt. Lbs.
G	20C187	400.0mH	135MA	30	1500	BAH	1 1/4	2 1/8	1 1/8	1 3/4	---	0.3
	20C115	75.0mH	1.0A	2.5	1500	BAH	2	3 1/4	1 3/4	2 13/16	---	1.0

■ Has lugs



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THORDARSON MEISSNER®

AUDIO OUTPUT TRANSFORMERS WITH POWER RATINGS 0.5 TO 35 WATTS INCLUDING 25 V & 70.7 V LINE TO SPEAKER

OUTPUT:

SINGLE PLATE TO VOICE COIL and/or Line - Lead Terminations.

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
A	24S127	1000	4.0	90	4	15.8:1	58	0.58	200-20000	500	BAH	1 3/8	2 3/8	1 1/4	2	0.5
A	24S51	5000	3.5	40	5	37.8:1	290	0.40	200-20000	1000	BAH	1 3/8	2 3/8	1 3/8	2	0.5

OUTPUT:

PUSH-PULL PLATE TO VOICE COIL and/or Line - Lead Terminations.
*Mounting Dimensions for 24S57 is 2 1/2 by 2 3/16 inches

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
B	24S57	6600CT	4/8/16/250/500	150	35	3.62:1	125	10.1	100-10000	2000	GGV	3 7/8	3 1/8	3 1/2	*	4.5
B	24S59	25000CT	3.5	10	5	79.0:1	880	0.3	200-10000	500	BAH	1 3/8	2 3/8	1 3/8	2	0.4

UNIVERSAL OUPUT:

SINGLE OR PUSH-PULL PLATE TO VOICE COIL - Lead Terminations on Primary
Lugs on Secondary

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
C	24S12	3500to14000CT	0.1 to 50	40	18	22.4:1	500	0.79	-	1500	BHV	2 3/8	2 7/8	2	2 3/8	1.2

25 VOLT LINE TO VOICE COIL (Speaker)

Lugs terminations except for 24S169 & 24S109 with leads

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
D	24S22	39/78/156/312/625/1250	4/8/16		16/8/4/2/1/0.5	8.8:1	70	1.8	100-6000	1500	BHV	2 3/4	3 1/8	2 1/8	2 13/16	1.5
D	24S21	78/156/312/625/1250	4/8/16		8/4/2/1/0.5	8.8:1	125	1.1	100-10000	1000	BHV	2	2 3/8	1 3/4	2	1.0
D	24S24	125/250/500/1000/2000	4/8		5/2.5/1.25/.63/.31	15.8:1	120	0.6	30-20000	1000	BHH	1 3/8	2 3/8	1 3/8	2	0.4
D	24S169	125/312/625/1250	8		5/2/1/0.5	12.8:1	65	0.75	---	1000	BAH	1 5/8	2 7/8	1 3/8	2 3/8	0.7
D	24S126	312/625/1250	4/8		2/1/0.5	12.5:1	80	0.84	50-15000	1000	BHH	1 1/4	2 1/8	1 3/8	1 3/4	0.3
D	24S109	312/625/1250	4/8		2/1/0.5	12.4:1	80	0.64	50-20000	1500	BAH	1 3/8	2 3/8	1 3/8	2	0.5

70.7 VOLT LINE TO VOICE COIL (Speaker)

Lugs terminations except for 24S168, 24S170, 24S171, and 24S176 with leads

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
E	24S167	100/125/200/333	4/8/16		50/40/25/15	4.58:1	24	1.3	40-20000	1500	BAV	2 3/8	2 7/8	2	2 3/8	1.3
E	24S171	166/333/666/1300	8		30/15/7.5/3.8	12.6:1	28	0.55	-	1000	BAH	2 5/8	4	2 3/8	3 9/16	2.5
E	24S166	166/250/500/1000	4/8/16		30/20/10/5	7.9:1	38	9.2	40-20000	1500	BAV	2 3/8	2 7/8	1 3/4	2 3/8	1.2
E	24S02	208/416/832/1664/3230	4/8/16		24/12/6/3/1.5	13.9:1	63	0.72	40-20000	1500	BHH	2 3/8	3 3/4	2 1/4	3 1/8	1.5
E	24S105	250/500/1000/2000	4/8/16		20/10/5/2.5	11.2:1	68	0.76	40-20000	1000	BHV	2 3/8	2 7/8	1 7/8	2 3/8	1.0
E	24S72	312/625/1250/2500/5000/10000	4/8/16		16/8/4/2/1/0.5	25.1:1	495	0.92	100-6000	1000	BHV	2 3/4	3 1/8	2 1/4	2 13/16	1.8
E	24S151	500/1000/2000/4000/8000	4/8/16		10/5/2.5/1.25/.62	21.5:1	790	1.85	50-20000	1000	BHH	1 5/8	2 13/16	1 3/4	2 3/8	0.8
F	24S170	500/1000/2000/4000	8		10/5/2.5/1.25	22.2:1	230	1.3	-	1000	BAV	2 3/8	2 7/8	1 3/4	2 3/8	1.0
F	24S71	625/1250/2500/5000/10000	4/8/16		8/4/2/1/0.5	25.0:1	860	1.4	100-10000	1000	BHV	2	2 3/8	1 3/4	2	1.0
F	24S168	1000/2500/5000/10000	8		5/2/1/.5	35.1:1	630	0.82	-	1000	BAH	1 5/8	2 7/8	1 3/8	2 3/8	0.7
F	24S74	1000/2000/4000/8000/16000	4/8		5/2.5/1.25/.62/.31	44.7:1	860	0.60	50-20000	1000	BHH	1 3/8	2 3/8	1 1/2	2	0.5
F	24S153	2500/5000/10000	4/8		2/1/.5	34.5:1	575	0.92	50-15000	1000	BHH	1 1/4	2 1/16	1 3/8	1 3/4	0.2
F	24S176	2500/5000/10000	8		2/1/.5	34.6:1	660	0.78	50-20000	1000	BAH	1 3/8	2 3/8	1 1/2	2	0.4

MISCELLANEOUS LINE TO VOICE COIL (Speaker)

Lead terminations on Primary, and lugs on Secondary.

SECT	Part Number	Impedance In Ohms Primary	Impedance In Ohms Secondary	Max Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response	RMS Test Volts	Style	Dimensions-Inches Case H	Case W	Case D	MW	Wt. Lbs.
G	24S75	500	3.2/6/8		5	8.1:1	50	0.85	100-10000	500	BAH	1 3/8	2 3/8	1 3/8	2	0.5
G	24S45	500	4/6/8/15		15	5.75:1	24	1.0	100-10000	500	BHV	2 5/16	2 7/8	1 3/4	2 3/8	1.2

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THORDARSON MEISSNER®

ISOLATION TRANSFORMERS 115 V TO 115 V & 230 V TO 115 V, 50\60 HZ WITH POWER RATING OF 0.6 VA TO 1000 VA

STRAIGHT ISOLATION:

115/115 Volts 50/60 Hz., three conductor line cord and plug. Core, case, and electrostatic shield connected to ground.

SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	Dimensions-Inches: Case H	Case W	Case D	Mounting MW	Mounting MD	Wt. Lbs.
A	23V364	115	115	100	1500	GMV	3 1/2	2 13/16	3 9/16	2 1/4	2 7/16	4.5
	23V365	115	115	150	1500	GMV	3 7/8	3 1/8	4 3/16	2 1/2	2 15/16	7.0
	23V366	115	115	250	1500	GMV	4 5/8	3 3/4	4 3/8	3	3 3/16	9.3
	23V367	115	115	500	1500	GMV	4 11/16	3 3/4	6	3	4 13/16	16.5
	23V368	115	115	1000	1500	GMV	5 1/2	4 9/16	8 1/8	3 1/2	6 1/2	31.5

STEP-DOWN ISOLATION:

230/115 Volts 50/60 Hz., three conductor line cord and plug. Core, case, and electrostatic shield connected to ground.

SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	H	W	D	MW	MD	Wt. Lbs.
B	23V369	230	115	100	1500	GMV	3 1/2	2 13/16	3 9/16	2 1/4	2 7/16	4.5
	23V372	230	115	500	1500	GMV	4 11/16	3 3/4	6	3	4 13/16	16.0
	23V373	230	115	1000	1500	GMV	5 1/2	4 9/16	8 1/8	3 1/2	6 1/2	31.0

STRAIGHT ISOLATION:

Primaries 50/60 Hz., conductor line cords except ■ with leads.
Secondary, female case mounted receptacle except ■ with leads.
Electrostatic shield grounded to core except ❍.

SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	H	W	D	MW	MD	Wt. Lbs.
C	23V376■❍	115	115	.6	1500	BAH	1 1/4	2 1/8	1 1/4	1 3/4	---	.3
	23V374■❍	115	115	15	1500	BAH	2	3 1/4	1 7/8	2 13/16	---	1.0
	23V17■	115	115	35	1500	BAH	2 1/4	3 11/16	2 1/8	3 1/8	---	1.8
D	23V74■❍	115/230▲	115	150	1500	GGV	3 7/8	3 1/4	4 1/4	2 1/2	3	7.0
	23V395❍	115	115/230◪■	150	1500	GMV	3 7/8	3 1/8	4 1/8	2 1/2	2 3/4	6.2
	23V126	115/115/125♉	115	250	1500	GMV	4 5/8	3 3/4	5 1/2	3	4 5/16	14.2

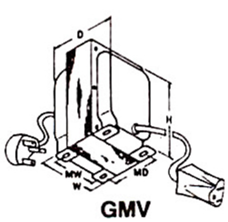
STEP-DOWN ISOLATION:

Primaries 50/60 Hz., Line cord. Secondary, female receptacle, except lead termination on 23V80 & 23V551. 23V80 Pri. is 2 separate 115V windings and has electrostatic shield with separate wire not grounded.

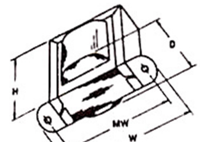
SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	H	W	D	MW	MD	Wt. Lbs.
E	23V80■❍	115/230▲	115	35	1500	BAH	2 1/4	3 11/16	2 1/4	3 1/8	---	1.8
	23V551■❍	115/230▲	115	50	1500	BAH	2 1/4	3 11/16	2 3/8	3 1/8	---	1.7
	23V128	210/230/250♉	115	100	1500	GMV	4 5/8	3 3/4	4 5/8	3	3 5/16	7.3
	23V129	210/230/250♉	115	250	1500	GMV	4 5/8	3 3/4	5 1/2	3	4 5/16	10.8
	23V130	210/230/250♉	115	500	1500	JMV	7 1/4	5 5/8	7 3/4	4 5/8	4 3/8	24.5
	23V548◀	210/230/250	115	1500	1500	JMV	7 1/4	5 5/8	9 1/4	4 5/8	6 3/8	50.0

♉ Has switch.
❍ Has electrostatic shield on separate leadwire (not grounded)
◪ Secondary is two separate 115V windings

◀ Has primary terminals.
■ Has leadwires.
▲ Primary is two separate 115V windings



GMV



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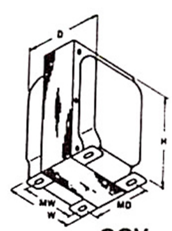
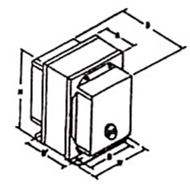


GGV



JMV

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THORDARSON MEISSNER®

STEP-DOWN AUTO-TRANSFORMERS:

Primaries 230 volt, 50/60 Hz. three conductor line cord and plug except +.
Core and case connected to ground.

SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	Dimensions-Inches					Wt. Lbs.
							Case			Mounting		
							H	W	D	MW	MD	
A	23V191	230	115	40	1500	GMV	3 1/8	2 1/2	2 1/2	2	1 1/2	2.2
A	23V393■	230	115	50	1500	BAH	2 3/8	3 3/4	2	3 1/8	---	1.5
A	23V290	230	115	75	1500	GMV	3 7/8	3 3/16	2 3/4	2 1/2	1 1/2	3.0
A	23V338	230	115	85	1500	GMV	3 1/8	2 5/8	2 3/4	2	1 3/4	2.5
B	23V344	230	115	125	1500	GMV	3 1/8	2 5/8	3	2	2	3.0
B	23V291	230	115	150	1500	GMV	3 7/8	3 3/16	3 1/4	2 1/2	2	4.4
B	23V339	230	115+	200	1500	GMV	3 7/8	3 3/16	3 3/8	2 1/2	2	4.2
B	23V292	230	115	250	1500	GMV	3 7/8	3 3/16	3 3/4	2 1/2	2 3/8	5.3
B	23V549	230	115	300	1500	GMV	3 7/8	3 3/16	3 5/8	2 1/2	2 3/8	5.3
B	23V293	230	115	350	1500	GMV	3 7/8	3 3/16	4	2 1/2	2 3/4	7.0
B	23V340	230	115+	400	1500	GMV	3 7/8	3 3/16	4 1/2	2 1/2	3 3/16	7.0
C	23V289	230	115	500	1500	GMV	4 5/8	3 13/16	4 1/4	3	3 1/16	10.6
C	23V510	230	115	750	1500	GMV	4 5/8	3 13/16	5 3/16	3	4 1/8	14.4
C	23V294	230	115	1000	1500	GMV	5 1/2	4 5/8	5 3/8	3 1/2	3 3/4	16.1
C	23V296	230	115	1500	1500	GMV	5 1/2	4 5/8	5 7/8	3 1/2	4 1/4	20.0

STEP-UP/STEP-DOWN AUTO-TRANSFORMERS:

208/230 Volt or 230/208 50/60 Hz. determined by lead wire change inside conduit box.

SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	H	W	D	MW	MD	Wt. Lbs.
D	23V46	230/208	208/230	3000	1500	GMH	4 1/8	4 1/2	6	3 3/4	2 1/2	10.0

STEP-UP AUTO-TRANSFORMERS:

Primaries 115 volt, 50/60 Hz. three conductor line cord and female connector.
Core and case connected to ground.

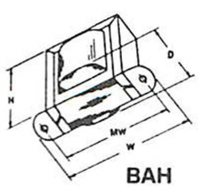
SECT	Part Number	Input Volts	Output Volts	VA Cap.	RMS Test Volts	Style	H	W	D	MW	MD	Wt. Lbs.
E	23V397	115	230	85	1500	GMV	3 1/8	2 5/8	2 3/4	2	1 3/4	2.5
E	23V398	115	230	125	1500	GMV	3 1/8	2 5/8	3	2	2	3.0
E	23V399	115	230 +	300	1500	GMV	3 7/8	3 13/16	3 7/8	2 1/2	2 3/8	5.2
E	23V400	115	230 +	500	1500	GMV	4 9/16	3 13/16	4 3/4	3	3 7/16	10.3
E	23V550	115	230	1000	1500	GMV	5 3/8	4 1/2	5 1/2	3 1/2	3 3/4	17.4

DEGAUSSING COIL - For Color Recievers

115VAC 60 Hz. 13 1/2" Dia. x 1" with 9ft Cord

SECT	Part Number	Description
F	19-2000	Degaussing (or demagnetizing) of color receivers is required when color shading is evident over a portion or portions of a black and white picture. This color is caused by residual magnetism in the set and can be easily removed with the degaussing coil. Also, it is good service practice to degauss all sets before proceeding to align the purity and/or convergence controls, since this magnetism may affect the final adjustments of these controls.

+ Standard female receptacle case mounted. ■ Has lead wire terminations.



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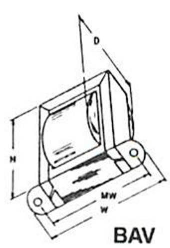
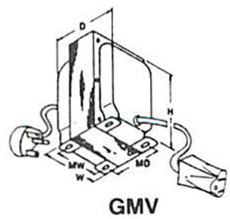
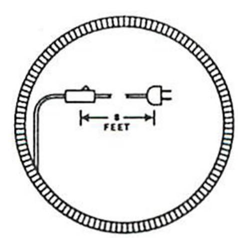


BAV



GMV
GMH



19-2000

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INTERNATIONAL (TSD) SERIES STEP-DOWN AUTO-TRANSFORMERS, 50/60HZ, 230V TO 115V, 100VA TO 2,500VA WITH CIRCUIT BREAKER SAFETY PROTECTION

THORDARSON is proud to introduce a new international series of step-down auto-transformers. Designed by popular request, these units reflect our continuing commitment to global expansion of our products. The input line cords are available with the plug configurations as shown below. The North American series is designed to expand the availability of use in other countries by use of a separate adapter.
Please Note: These transformers will not change frequency.

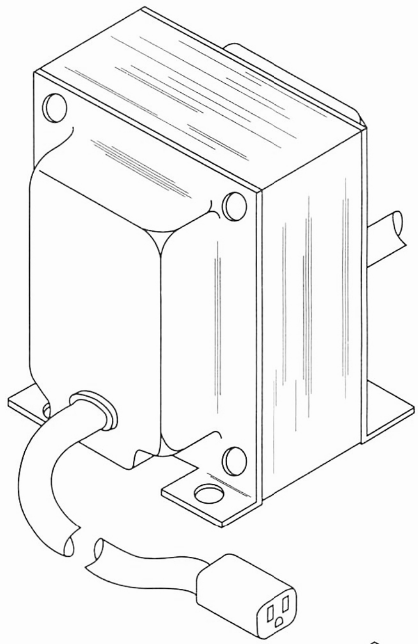
The UL/C insignia is for the ***-NA*** *series only.*

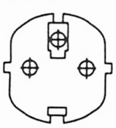
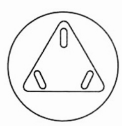
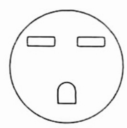
The UL/Classified is for the ***-EU***, ***-UK***, *and* ***-AU*** *series.*

Pri: 230VAC, 50/60Hz
Sec: 115VAC

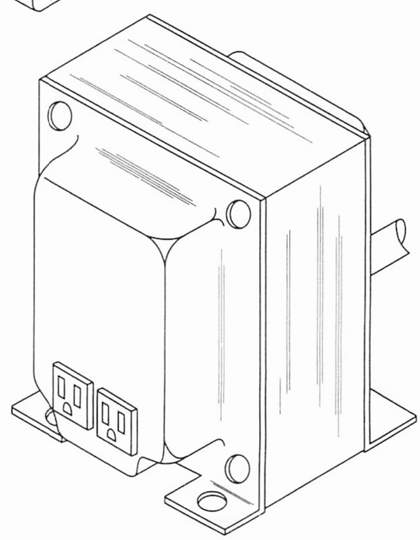
Output Termination:
100VA-1500VA: 4" line cord with Nema 5-15R
2000VA: 4" line cord with Nema 5-20R (Canadian style)
2500VA: Two 15A Receptacles, case mounted

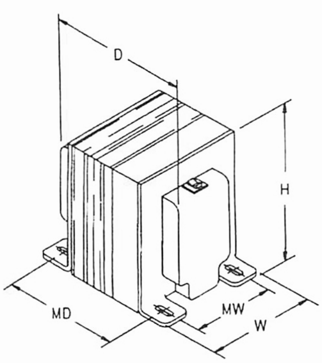
Circuit Breaker



VA Size	European (Schuko)	United Kingdom	Australia	North American
100	TSD-100-EU	TSD-100-UK	TSD-100-AU	TSD-100-NA*
200	TSD-200-EU	TSD-200-UK	TSD-200-AU	TSD-200-NA*
350	TSD-350-EU	TSD-350-UK	TSD-350-AU	TSD-350-NA*
500	TSD-500-EU	TSD-500-UK	TSD-500-AU	TSD-500-NA*
750	TSD-750-EU	TSD-750-UK	TSD-750-AU	TSD-750-NA*
1000	TSD-1000-EU	TSD-1000-UK	TSD-1000-AU	TSD-1000-NA*
1500	TSD-1500-EU	TSD-1500-UK	TSD-1500-AU	TSD-1500-NA*
2000	TSD-2000-EU	TSD-2000-UK	TSD-2000-AU	TSD-2000-NA*
2500	TSD-2500-EU	TSD-2500-UK	TSD-2500-AU	TSD-2500-NA*
Plug Config.				
Plug Abbrev	CEE 7/7 (SCHUKO)	BS 1363 With Fuse (UK1-13P)	AU2-15P	6-15P
Plug Rating	16A 250V	13A 250V	15A 250V	15A 240V

*Please Note: These units will require separate adapters to be purchased for the specific country of destination.





VA Size	Dimensions			Mounting		
	H	W	D	MW	MD	LBS
100	3 7/8	3 3/16	4 3/16	2 1/2	3	4.3
200	3 7/8	3 3/16	4 5/16	2 1/2	3 1/8	4.7
350	3 7/8	3 3/16	5 1/8	2 1/2	3 15/16	6.6
500	4 5/8	3 13/16	5 1/2	3	4 7/16	10.0
750	4 5/8	3 13/16	6 1/2	3	5 7/16	13.0
1000	5 5/16	4 7/16	6 3/4	3 1/2	5 1/4	16.4
1500	5 7/8	4 5/16	7	3 7/16	5 5/8	16.7
2000	5 7/8	4 5/16	7 3/4	3 7/16	6 3/8	21.3
2500	6 5/16	5 5/16	9 1/8	4 1/4	7 5/8	38.0

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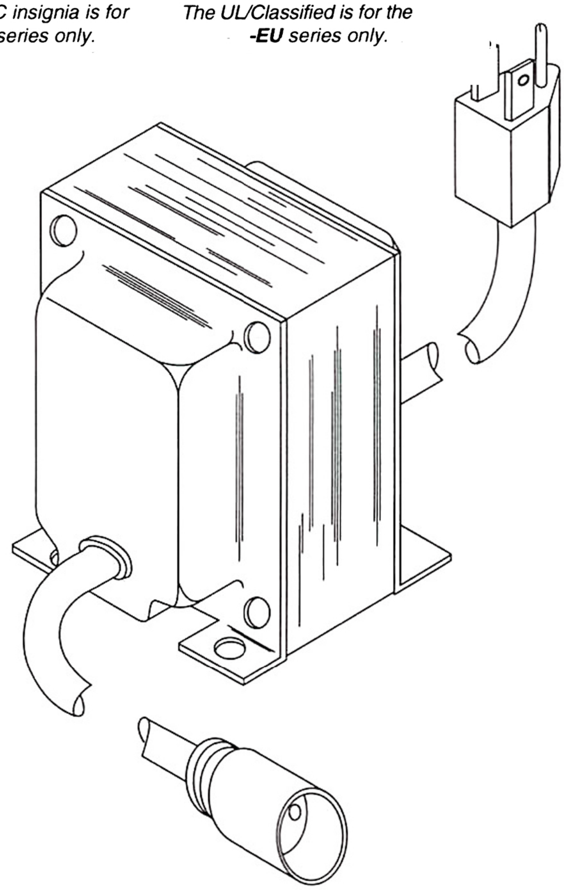
THORDARSON MEISSNER®

INTERNATIONAL (TSU) SERIES STEP-UP AUTO-TRANSFORMERS, 50/60HZ, 115V TO 230V, 100VA TO 2,500VA WITH CIRCUIT BREAKER SAFETY PROTECTION

THORDARSON is proud to present a continuation of our global commitment to our customers the new line of step-up auto-transformers. These units are designed for use by those in need of higher voltage than what is available in our country. These units are designed with the popular European (Schuko) receptacle and are available in various sizes. *Please Note: These transformers will not change frequency.*

*The UL/C insignia is for the **-NA** series only.*

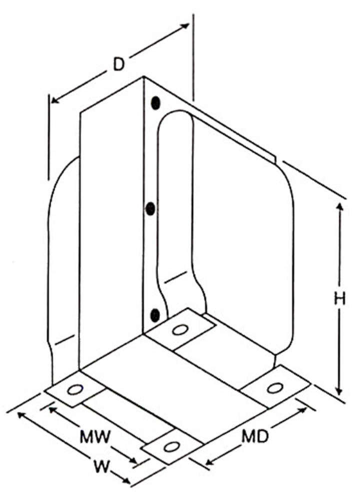
*The UL/Classified is for the **-EU** series only.*



Pri: 115VAC 50/60 Hz.

Sec: 230 VAC

VA Size	Part Number	Dimensions			Mounting		Lbs.
		H	W	D	MW	MD	
100VA	TSU-100	3½	2⅞	3½	2¼	2⅛	3.8
200VA	TSU-200	3⅞	3⅛	3¼	2½	2	4.7
350VA	TSU-350	3⅞	3⅛	4	2½	2¾	6.7
500VA	TSU-500	4⅝	3 13/16	4¼	3	3 1/16	10.0
750VA	TSU-750	4⅝	3 13/16	5¼	3	4⅛	13.0
1000VA	TSU-1000	5⅜	4½	5½	3½	3¾	16.4
1500VA	TSU-1500	5⅞	4⅜	5¼	3 7/16	3 7/16	16.7
2000VA	TSU-2000	5⅞	4⅜	6¼	3 7/16	4 7/16	21.3
2500VA	TSU-2500	6⅜	5⅜	7½	4¼	6	38.0



Termination:

Input:

Primary line cord with NEMA5-15P except
TSU-2500 which has a NEMA5-20P

OutputTermination:

European receptacle
(Schuko) CEE 7/7

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LINE MATCHING 115/230V TO 115/230V & 230/460V TO 115/230V 50/60HZ
UL CLASS 130B & RATINGS FROM 50VA TO 2,000VA

130B

These new units are designed for convenient connections
- Solder Terminals on 50 VA & 100 VA Sizes
- Screw Terminals on All Highr VA Sizes

23V600 Series Transformers can be used for:
- Step-Up,
- Step-Down,
- Straight Isolation.

Primary 115 or 230 VAC & 230 or 460 VAC, 50/60Hz.
Secondary 115/230 VAC,
5.0 Mil Thick Electrostatic Shield Grounded to Laminations.

Part Number	Primary	Secondary	VA	Fig.	Dimensions-Inches					Wt. Lbs.
					Case			Mounting		
					H	W	D	MW	MD	
23V601	115/230	115/230	50	B	2 9/16	3	2 3/4	2 1/2	2 3/8	3.0
23V602	115/230	115/230	100	B	2 9/16	3	3 5/8	2 1/2	3 1/4	4.5
23V603	115/230	115/230	250	A	3 13/16	4 1/2	3 3/4	3 3/4	2 7/8	9.5
23V604	115/230	115/230	500	A	4 7/16	5 1/4	5	4 3/8	3 7/8	18.0
23V605	115/230	115/230	750	A	4 7/16	5 1/4	6 1/4	4 3/8	4 15/16	24.5
23V606	115/230	115/230	1000	A	5 11/16	6 3/4	6 5/8	6 1/8	4	30.5
23V607	115/230	115/230	1500	A	5 11/16	6 3/4	7 1/4	6 1/8	5 3/8	44.0
23V608	115/230	115/230	2000	A	5 11/16	6 3/4	8	6 1/8	6 1/8	52.5
23V609	230/640	115/230	100	B	2 9/16	3	3 5/8	2 1/2	3 1/4	4.5
23V610	230/460	115/230	250	A	3 13/16	4 1/2	3 3/4	3 3/4	2 7/8	9.5
23V611	230/640	115/230	500	A	4 7/16	5 1/4	5	4 3/8	3 8/8	18.0
23V612	230/460	115/230	750	A	4 7/16	5 1/4	6 1/4	4 3/8	4 15/16	24.5
23V613	230/460	115/230	1000	A	5 11/16	6 3/4	6 5/8	6 1/8	4	30.5
23V614	230/460	115/230	1500	A	5 11/16	6 3/4	7 1/4	6 1/8	5 3/8	44.0
23V615	230/460	115/230	2000	A	5 11/16	6 3/4	8	6 1/8	6 1/8	52.5

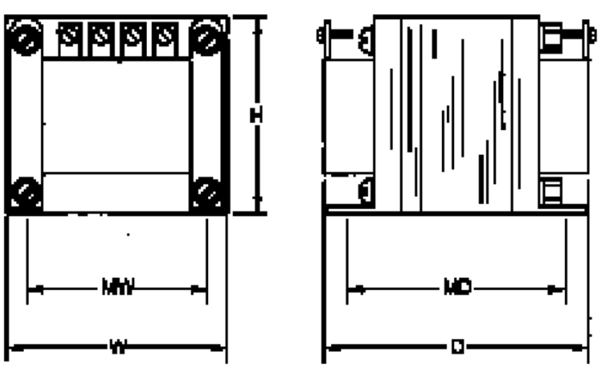

Fig. A Screw Terminals

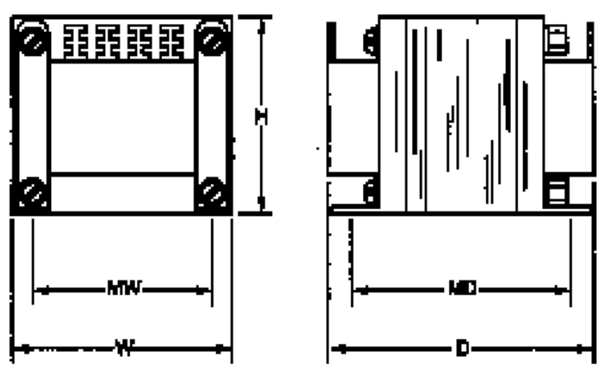

Fig. B Solder Lugs

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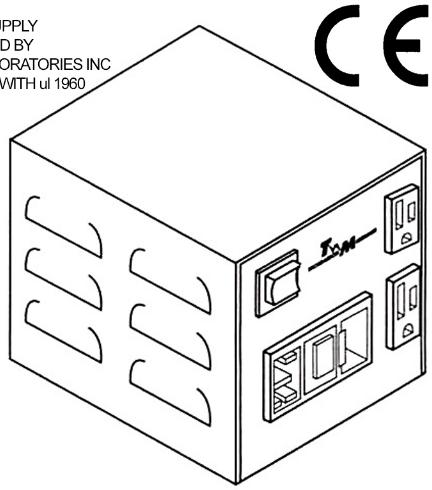
THORDARSON MEISSNER®

UNIVERSAL ISOLATION POWER SOURCE ALL FOREIGN LINE VOLTAGES 50/60HZ, 110, 120, 200 & 240 V TO 120 VOLTS @ 100, 250, 500 & 1,000 VA RATED

Universal Voltage Converters - Converts 100/120/220/240 volts to isolated 120V volts with optional foreign power IEC input cords to suit your use location.

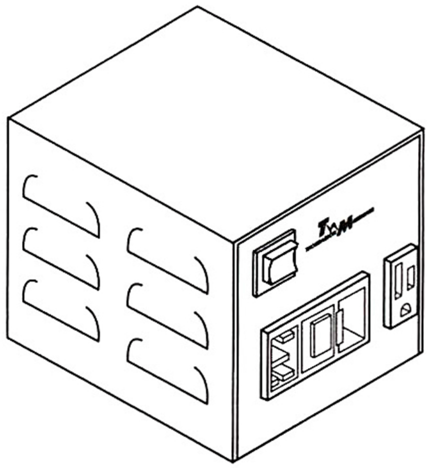
POWER SUPPLY
CLASSIFIED BY
UNDERWRITERS LABORATORIES INC
IN ACCORDANCE WITH ul 1960
50CL



FEATURES:

- Four convenient power sizes.
- IEC input port for foreign cords.
- Operates on 50 Hz and 60 Hz input with safety*.
- Isolated Output receptacle.
- Convenient on-off switch.

FOREIGN POWER SUPPLIES						
SECT	Part Number	VA Output Maximum	Dimensions in inches Heighth	Width	Length	Wt. Lbs.
A	75-100	100	4	5⅞	7⅜	8
	75-250	250	4	5⅞	7⅜	14
	75-500	500	5⅜	7½	8½	26
	75-1000	1000	7⅝	8	10	35
POWER CORDS MATCHED TO THE COUNTRY OF USE:						
	Part No.	Amps	Country of use	Agency		
B	75C-37030	10	Asia	UL, CSA		
	75C-4100	10	Australia	EANSW		
	75C-2004	10	Britain	ASTA		
	75C-3300	10	Europe	KEMA, NEMKO, SEMKO		

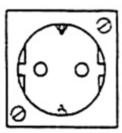


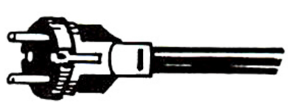
APPLICATIONS:

- Power for photographic/TV crews abroad.
- Power for international trade shows.
- Conversion for U.S. appliances in foreign use.

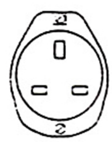
*NOTE: Unit does not change frequency.
Use only for equipment that can be operated on 50 Hz only, 60 Hz only, or 50/60 Hz.

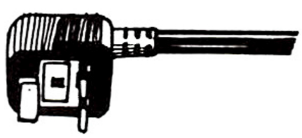
75C-3300 10 Amp "Schuko" European (10A Version of above both usable Brazil/Argentina)



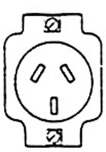


75C-2004 10 Amp United Kingdom BS1363 (will not mate w/BS546-Standard Prior to 1954)





75C-4100 10 Amp Australia/New Zealand



75C-37030 10 Amp North American Nema 5-15 (Japan, Vietnam & Phillipines)

Thordarson Meissner, Inc,
537 East Brooks Ave., #409
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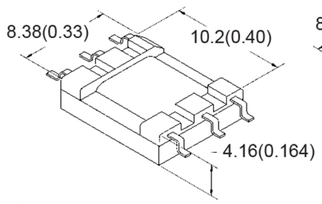
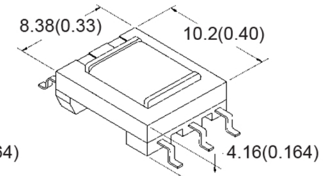
THORDARSON MEISSNER®

TELECOM TRANSFORMERS, FCC PART 68 COMPLIANT FOR VOICE, HYBRID & DATA TRANSFORMERS FOR TELECOM APPLICATIONS

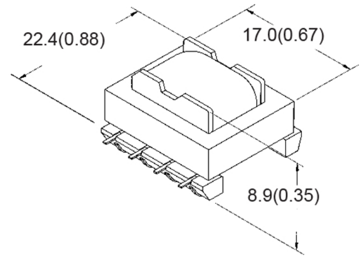
•Surface Mount Transformers For Voice, Hybrid and High Speed Data Applications





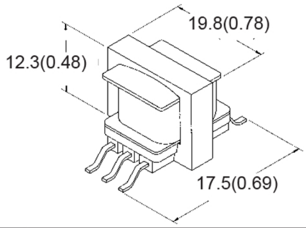
Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR	Schematic
TM103SL	600:346	0	2.7	0.15/0.35	127	150	1
TM203SL	600:346	0	2.7	0.15/0.35	127	150	1
TM501SL	600:301	0	2.7	0.15/0.35	157	146	1
TM506SL	600:301	0	2.7	0.15/0.35	157	146	1

Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.



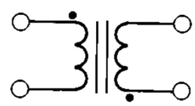
Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR	Applications Notes	Schematic
TM3104S	600:600	0	1.4	±0.5	76	135	Modem	1
TM3154S	600:600	0	1.4	±0.5	54	67	Voice/Data	1
TM3114S	600:500	0	1.0	±0.1	54	67	Voice/Data	1

Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.

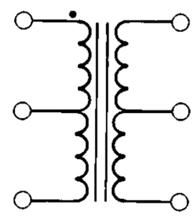


Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR
TM1104S	600:600	0	1.0	±0.5	46	63

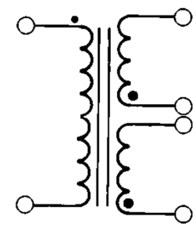
Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.



Schematic #1

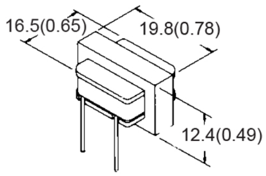


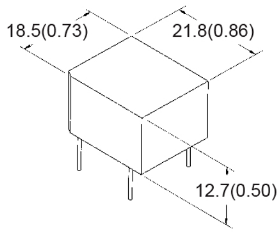
Schematic #2



Schematic #3

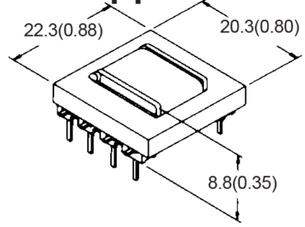
•PCB Transformers for Voice, Hybrid and High Speed Data Applications





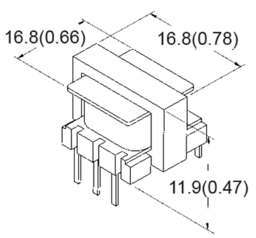
Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR	Schematic
TM1104	600:600	0	1.0	±0.25	46	64	1
TM272	600:600	0	1.0	±0.50	46	64	1
TM1104-M	600:600	0	1.0	±0.25	46	64	1

Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.



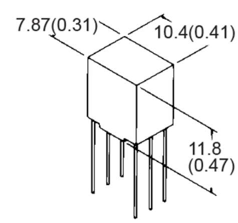
Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.

Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR	Schematic
TM3104P	600:600	0	1.4	±0.5	76	135	1
TM3106P	600CT:600CT	0	1.4	±0.5	76	135	2
TM3154P	600:600	0	1.4	±0.1	52	67	1
TM3114P	600:500	0	1.4	±0.1	52	67	1



Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Schematic
TM1104L	600:600	0	1.0	±0.3	46	1

Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.



Thordarson Meissner Part No.	Impedance Pri:Sec	maDC Unbal	IL dB	FR1 ±dB	Pri DCR	Sec DCR	Schematic
MET-31-T	600CT:600CT	3.0	1.5	±1.0	70	95	2
MET-32-T	600:600	3.0	1.5	±1.2	72	95	1
MET-46-T	600:600	3.0	1.5	±1.0	72	93	1
MET-29-T	900CT:600	3.0	1.5	±1.0	80	95	CALL

Note 1: Typical Frequency Respsponse (FR) from .3 to 3.5kHz, relative to 1kHZ at rated maDC & 0 dBM.

Thordarson Meissner, Inc,
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THORDARSON MEISSNER®

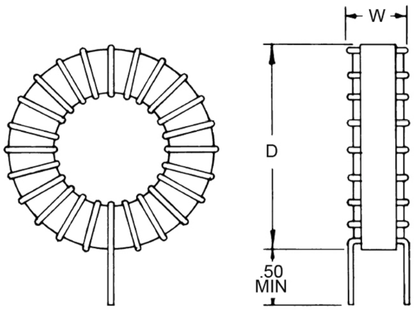
TOROIDAL POWER INDUCTORS MECHANICAL OUTLINE DIMENSIONS OPEN, BASE MOUNTED & MOLDED STYLES (REFER TO PAGE 34 FOR SPECIFICATIONS)

Swinging Chokes for Switch Mode Power Supplies, Energy Storage, Regulator, and EMI/RFI Filter Applications

- Specially designed for controlled saturation…repeatable specific inductance at a specific current.
- Designed to handle high current spikes typically encountered in high current SMPS applications.
- Application frequencies up to 1 MHz.
- Toroidal construction…closed magnetic field-low EMI.

Open Frame-F

Tinned leads to 1/16″ of body for PCB mounting. To order add-F to Part No., i.e. TM2-50-F.



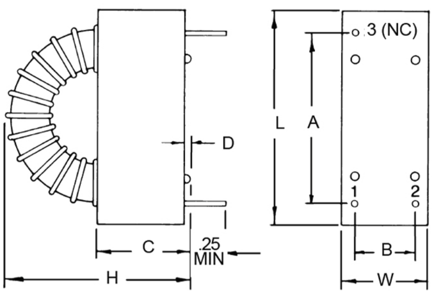
TM-F

Series Prefix	D max.	W max.	Wt oz.
TM05-##-F	0.56	0.30	0.13
TM06-##-F	0.87	0.40	0.45
TM1-##-F	1.00	0.50	0.64
TM2-##-F	1.30	0.65	1.59
TM3-##-F	1.90	0.90	4.10
TM4-##-F	2.20	1.10	8.00

Dimensions in inches. Additional mechanical mounting recommended for larger units with finer wire.

Base mounted-B

Rugged, epoxy base mounted for PCB applications. To order add-B to Part No., i.e. TM2-50-B.



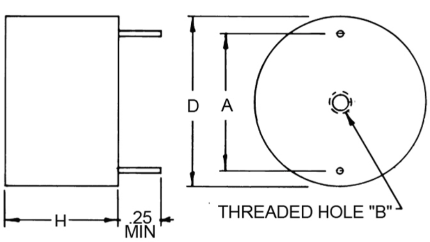
TM-B

Series Prefix	L max.	W max.	H max.	A	B	C max.	D	WT oz.
TM05-##-B	0.66	0.34	0.62	0.50	0.20	0.22	.025	0.15
TM06-##-B	0.87	0.43	0.94	0.60	0.20	0.22	.025	0.49
TM1-##-B	1.01	0.52	1.08	0.90	0.40	0.26	.025	0.70
TM2-##-B	1.31	0.66	1.33	1.10	0.50	0.36	.030	1.70
TM3-##-B	1.90	0.90	1.98	1.60	0.60	0.41	.030	4.40
TM4-##-B	2.12	1.08	2.30	1.75	0.90	1.00	—	8.80

Dimensions in inches. Tolerances dimension A and B ±.015.

Molded-M

Epoxy molded with threaded insert. MIL designation TF5S04ZZ. To order add -M to Part No.,i.e. TM2-50-M.



TM-M

Series Prefix	D	H	A	B	Wt oz.
TM05-##-M	0.625	0.34	0.52	—	0.18
TM06-##-M	0.937	0.46	0.75	—	0.60
TM1-##-M	1.080	0.52	0.90	4-40x8	0.86
TM2-##-M	1.375	0.70	1.20	6-32x8	2.30
TM3-##-M	2.000	1.00	1.70	8-32x10	6.00
TM4-##-M	2.500	1.25	1.25	10-32x12	10.80

Dimensions in inches. Tolerance dimension A ±.015.

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THORDARSON MEISSNER®

TOROIDAL POWER INDUCTORS ELECTRICAL SPECIFICATIONS
1.0UHY TO 5,600UHY & 1ADC TO 14ADC
(REFER TO PAGE 33 FOR OUTLINES & DIMENSIONS)

- All TM series toroidal power inductors are available in the Open Frame-F, Base Mounted-B, and Molded-M versions. See notes below the table.
- Non-standard inductance values available. Call the corporate sales office for assistance.

Part No.	"L" @ 0 DC µh	Max. DCR (ohms)	Rated Current (amps)	5% L Drop (DC amps)	10% L Drop (DC amps)	20% L Drop (DC amps)	30% L Drop (DC amps)	40% L Drop (DC amps)	50% L Drop (DC amps)
TM05-15 (*)	15.0	0.010	4.00	2.50	3.60	5.2	6.6	8.2	9.8
TM05-24 (*)	24.0	0.018	2.50	2.20	3.00	4.2	5.5	6.7	7.9
TM05-35 (*)	35.0	0.037	1.60	1.40	2.00	3.3	4.5	5.5	6.6
TM05-55 (*)	55.0	0.072	1.00	1.40	1.90	2.7	3.5	4.2	5.0
TM05-85 (*)	85.0	0.142	0.65	0.80	1.20	2.0	2.7	3.3	3.9
TM05-158 (*)	158.0	0.271	0.40	0.60	0.90	1.4	1.9	2.3	2.8
TM05-192 (*)	192.0	0.530	0.25	0.53	0.80	1.3	1.7	2.1	2.5
TM05-305 (*)	305.0	1.050	0.16	0.50	0.74	1.1	1.4	1.7	2.0
TM06-26 (*)	26.0	0.011	6.50	5.20	6.80	9.2	11.2	13.4	15.9
TM06-36 (*)	36.0	0.013	6.50	4.50	5.80	7.8	9.6	11.5	13.5
TM06-51 (*)	51.0	0.015	6.50	3.50	4.60	6.2	7.9	9.5	11.2
TM06-80 (*)	80.0	0.027	4.50	2.60	3.50	4.7	6.0	7.3	8.7
TM06-122 (*)	122.0	0.056	3.00	2.30	3.00	4.0	5.0	6.0	7.0
TM06-188 (*)	188.0	0.104	2.00	1.90	2.50	3.4	4.1	4.9	5.7
TM06-300 (*)	300.0	0.215	1.00	1.50	1.90	2.6	3.1	3.8	4.5
TM06-460 (*)	460.0	0.430	0.65	1.10	1.50	2.1	2.6	3.2	3.7
TM1-1.1 (*)	1.1	0.002	5.00	26.30	34.10	50.0	59.8	71.8	83.3
TM1-2.5 (*)	2.5	0.003	5.00	17.00	22.10	32.4	38.8	46.6	54.1
TM1-4.5(*)	4.5	0.004	5.00	10.70	14.30	21.0	25.2	30.2	35.1
TM1-8.0 (*)	8.0	0.005	5.00	8.80	11.60	16.0	20.0	24.0	27.8
TM1-15 (*)	15.0	0.007	5.00	5.10	7.50	11.0	14.0	16.9	20.0
TM1-30 (*)	30.0	0.009	5.00	4.20	5.50	8.0	10.2	12.4	14.9
TM1-60 (*)	60.0	0.017	5.00	2.10	3.60	5.4	6.9	8.5	10.2
TM1-120 (*)	120.0	0.027	5.00	1.70	2.60	3.9	5.0	6.1	7.4
TM1-220 (*)	220.0	0.037	5.00	1.50	2.00	3.0	3.8	4.6	5.5
TM1-450 (*)`	450.0	0.090	3.20	1.30	1.60	2.2	2.8	3.4	4.0
TM1-900 (*)	900.0	0.230	1.50	0.90	1.20	1.6	1.9	2.4	2.8
TM1-1500 (*)	1500.0	0.470	1.10	0.60	0.80	1.2	1.5	1.8	2.1
TM2-1.4 (*)	1.4	0.003	5.00	28.30	43.80	62.2	82.1	102.5	123.0
TM2-2.5 (*)	2.5	0.003	5.00	23.80	36.80	52.5	69.7	87.0	104.3
TM2-5.5 (*)	5.5	0.005	5.00	16.00	24.80	35.4	47.0	58.7	70.4
TM2-13 (*)	13.0	0.007	5.00	9.50	14.70	21.0	31.5	39.3	47.1
TM2-26 (*)	26.0	0.010	5.00	6.30	10.00	15.0	20.0	25.0	30.0
TM2-50 (*)	50.0	0.013	5.00	4.20	6.90	10.3	13.9	17.4	21.0
TM2-100 (*)	100.0	0.018	5.00	3.30	4.90	7.5	9.8	12.2	14.9
TM2-225 (*)	225.0	0.034	5.00	2.90	3.70	5.1	6.9	8.3	9.9
TM2-475 (*)	475.0	0.055	4.50	1.50	2.00	3.4	4.4	5.5	6.8
TM2-1000 (*)	1000.0	0.130	4.50	1.20	1.60	2.3	3.1	3.9	4.7
TM2-1800 (*)	1800.0	0.340	2.00	1.00	1.30	1.9	2.4	2.9	3.5
TM2-2700 (*)	2700.0	0.520	2.00	0.60	0.90	1.4	1.8	2.3	2.8
TM3-1.3 (*)	1.3	0.003	9.00	51.60	72.20	101.0	128.3	160.3	192.3
TM3-3.0 (*)	3.0	0.004	9.00	40.00	56.00	78.4	99.5	124.3	149.0
TM3-6.5 (*)	6.5	0.005	9.00	31.20	43.60	61.0	77.5	96.8	116.1
TM3-14 (*)	14.0	0.008	9.00	24.40	34.30	48.6	62.1	77.5	92.9
TM3-30 (*)	30.0	0.011	9.00	17.60	24.80	35.2	45.0	56.2	67.4
TM3-55 (*)	55.0	0.015	9.00	12.20	18.50	26.3	33.6	42.0	50.4
TM3-100 (*)	100.0	0.020	9.00	9.40	13.30	19.7	25.2	31.6	37.9
TM3-220 (*)	220.0	0.020	9.00	4.90	6.60	9.4	11.9	14.4	17.1
TM3-470 (*)	470.0	0.034	7.00	2.70	4.10	6.3	8.1	10.0	12.0
TM3-1000 (*)	1000.0	0.120	3.50	2.00	2.70	4.2	5.4	6.8	8.2
TM3-2200 (*)	2200.0	0.220	2.80	1.60	2.10	3.0	3.8	4.6	5.5
TM3-4000 (*)	4000.0	0.300	2.00	1.10	1.50	2.1	2.8	3.3	4.0
TM4-2.2 (*)	2.2	0.003	14.00	49.80	67.20	100.2	130.2	158.8	190.6
TM4-5 (*)	5.0	0.004	14.00	40.00	54.00	80.5	104.6	127.6	153.1
TM4-11 (*)	11.0	0.005	14.00	32.10	43.30	64.5	83.8	102.2	122.6
TM4-23 (*)	23.0	0.007	14.00	24.60	33.20	49.5	64.3	78.4	94.1
TM4-50 (*)	50.0	0.011	14.00	18.30	24.70	36.9	47.8	58.3	70.0
TM4-100 (*)	100.0	0.016	14.00	12.80	17.30	25.9	33.6	41.0	49.2
TM4-230 (*)	230.0	0.023	14.00	7.10	10.40	15.8	20.5	25.0	30.0
TM4-470 (*)	470.0	0.023	14.00	3.50	5.40	8.0	10.4	12.7	15.4
TM4-1000 (*)	1000.0	0.065	9.00	2.40	3.50	5.5	7.2	8.8	10.7
TM4-2200 (*)	2200.0	0.120	7.00	2.00	3.00	4.0	5.0	6.1	7.3
TM4-4000 (*)	4000.0	0.260	4.50	1.10	1.80	2.8	3.5	4.5	5.4
TM4-5600 (*)	5600.0	0.310	4.50	0.90	1.40	2.2	3.0	3.8	4.5

(*) Add either -F, -B, or -M to Part No. to designate construction and see outline drawings on adjacent page.

Notes:
1. Non-standard inductance values available upon special order, i.e. specify P/N TM2-75-F for 75 µH.
2. Inductance ±15% measured at 1 kHz. See drive level test condition chart.
3. Current values for percentage inductance drop are typical.
5. Recommended PC board clearance hole .065 dia. min.

DRIVE LEVEL TEST CONDITIONS

INDUCTANCE	DRIVE LEVEL 1 kHz
0-200 µH	100 mA AC
200 µH—2 mH	10 mA AC
2 mH—20 mH	1 mA AC

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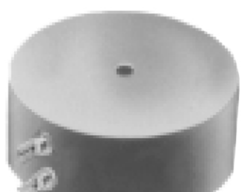
THORDARSON MEISSNER®

TOROIDAL HIGH Q INDUCTORS 1.0 MHY TO 50 HY
OPEN, MOLDED & HERMETIC SEALED STYLES

TMQG-F, TMQI-F, TMQK-F,
TMQPL-F, TMQTL-F OPEN FRAME



TMQI-M, TMQK-M, TMQPL-M,
TMQTL-M MOLDED

TMQI-H, TMQK-H 2 STUDS,
TMQPL-H, TMQTL-H
4 STUDS HERMETIC

TMQE Series

Ultra miniaturized with low height design. Exceptionally high "Q" and wide frequency range. Frequency range of TMQEL Series 1 to 300 kHz: TMQEM, 3 to 500 kHz. Accuracy, ±2%. Molded in epoxy resin with .020″ x 2″ tinned leads. size, .450″ dia. x .285″.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM1QEL-M	1mH	2.1	25	TM05QEM-M	0.5mH	2.1	20
TM2QEL-M	2	3.6	30	TM1QEM-M	1.0	3.8	30
TM5QEL-M	5	7.3	35	TM2QEM-M	2.0	6.2	35
TM10QEL-M	10	15.8	45	TM5QEM-M	5.0	15.9	45
TM15QEL-M	15	20.0	45	TM10QEM-M	10.0	19.0	50
TM25QEL-M	25	32.0	50	TM15QEM-M	15.0	42.0	55
TM50QEL-M	50	69.0	50	TM25QEM-M	25.0	88.0	60
TM100QEL-M	100	185.0	70	TM50QEM-M	50.0	193.0	70

TMQG Series

Frequency range of QGL Series to 20kHz:TMQGM Series. Accuracy, ±2%. TMQG-F: Open frame, microcrystalline wax dipped with 4″ #28 AWG leads. Size .625″ dia x .281″. TMQG-M: Molded in high temperature epoxy resin with .020″x2″ tinned leads. Leads may be bent downward for plug-in printed circuit use. Size .875″ dia. x .375″.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM5QGL- (*)	5.0mH	2.5	30	TM1QGM- (*)	1mH	1.4	22
TM10QGL- (*)	10.0	5.0	33	TM2QGM- (*)	2	2.5	25
TM15QGL- (*)	15.0	8.0	34	TM5QGM- (*)	5	6.0	28
TM30QGL- (*)	30.0	17.0	37	TM10QGM- (*)	10	12.0	31
TM50QGL- (*)	50.0	28.0	40	TM15QGM- (*)	15	18.0	32
TM100QGL- (*)	100.0	50.0	42	TM25QGM- (*)	25	30.0	35
TM250QGL- (*)	250.0	130.0	46	TM50QGM- (*)	50	52.0	37
TM500QGL- (*)	500.0	290.0	48	TM100QGM- (*)	100	115.0	39
TM1000QGL- (*)	1.0 H	530.0	51				
TM1500QGL- (*)	1.5	825.0	53				

** Add either -M, -F or -H to designate construction.*

TMQI Series

Frequency range to 20 kHz accuracy, ±2%. TMQIL-M: Molded in high temperature epoxy with solder plated turret lugs. Size. 1.87″ dia.. x.50″. TMQIL-H: Hermetically sealed in metal case with Teflon terminals. Size, 1.062″ x .50″ x 1.219″. TMQIL-F: Open frame. Microcrystalline wax dipped with 4″ #28 plastic leads. Size. 1″ dia x .406″.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM3QIL- (*)	3mH	.73	36	TM150QIL- (*)	150.0mH	34	50
TM5QIL- (*)	5	1.10	38	TM250QIL- (*)	250.0	55	53
TM10QIL- (*)	10	2.10	40	TM500QIL- (*)	500.0	95	55
TM15QIL- (*)	15	3.30	42	TM1000QIL- (*)	1.0H	210	57
TM25QIL- (*)	25	5.30	45	TM1500QIL- (*)	1.5	335	59
TM50QIL- (*)	50	11.00	47	TM2500QIL- (*)	2.5	550	61
TM100QIL- (*)	100	22.00	49				

** Add either -M, -F or -H to designate construction.*

TMQK Series

Frequency range of QKL Series to 10 kHz. TMQKM Series, 5 to 50 kHz. Accuracy, ±2%. TMQK-F: Open frame, microcrystalline waxdipped, 4″ #28AWG leads. Size, 1.25″ dia. x .525″. QK-H: Hermetically sealed with Teflon terminals, size, 1.469″ x .781″ x 1.734". TMQK-M: Molded in high temperature epoxy resin, silver plated turret lugs. Size, 1.375″ dia. x .75″; #8 clearance hole.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM5QKL- (*)	5mH	.62	60	TM250QKL- (*)	250.0mH	28	87
TM10QKL- (*)	10	1.10	66	TM500QKL- (*)	500.0	63	91
TM15QKL- (*)	15	1.70	68	TM1000QKL- (*)	1.0H	110	96
TM25QKL- (*)	25	2.80	72	TM1500QKL- (*)	1.5	175	98
TM50QKL- (*)	50	6.00	76	TM2500QKL- (*)	2.5	275	103
TM100QKL- (*)	100	11.00	81	TM5000QKL- (*)	5.0	645	106
TM150QKL- (*)	150	17.00	83	TM10,000QKL- (*)	10.0	1175	112
TM2QKM- (*)	2mH	.45	52	TM100QKM- (*)	100.0mH	25	79
TM5QKM- (*)	5	1.10	58	TM250QKM- (*)	250.0	65	87
TM10QKM- (*)	10	2.50	62	TM500QKM- (*)	500.0	115	92
TM25QKM- (*)	25	6.50	70	TM1000QKM- (*)	1.0H	250	97
TM50QKM- (*)	50	11.00	74				

** Add either -M, -F or -H to designate construction.*

TMQP Series

Frequency range to 10 kHz: accuracy ±2%. QPL-F: Open frame, microcrystalline wax dipped: 4″ #24 leads. Size, 1.938″ x .875″. TMQPL-H: Hermetically sealed with Teflon terminals. Size, 1.938″ x 1.063″ x 2.281″. TMQPL-M: Molded in high temperature epoxy resin; silver plated turret lugs. Size. .2″ dia. x 1″.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM25QPL- (*)	25.0mH	1.5	100	TM2500QPL- (*)	2.5H	150	133
TM50QPL- (*)	50.0	2.5	105	TM5000QPL- (*)	5.0	350	138
TM100QPL- (*)	100.0	6.0	110	TM7500QPL- (*)	7.5	525	140
TM250QPL- (*)	250.0	15.0	115	TM10,000QPL- (*)	10.0	600	142
TM500QPL- (*)	500.0	25.0	120	TM15,000QPL- (*)	15.0	900	146
TM1000QPL- (*)	1.0 H	60.0	125	TM25,000QPL- (*)	25.0	1500	150
TM1500QPL- (*)	1.5	90.0	130				

** Add either -M, -F or -H to designate construction.*

TMQT Series

Frequency range to 15 kHz: accuracy ±2%. QTL-F: Open frame, microcrystalline wax dipped: 4″ #24 leads. Size, 2.438″ dia. x .1″. QTL-K: Hermetically sealed with Teflon terminals. Size, 2.563″ x 1.313″x 2.813″. TMQTL-M: Molded in epoxy resin. Size, 2.875″ x 1.375″.

Part No.	Inductance	Typ. DCR	Typ. Dist. Cap., pf	Part No.	Inductance	Typ. DCR	Typ. Dist Cap., pf
TM25QTL- (*)	25.0 mH	0.85	127	TM1500QTL- (*)	1.5H	40	177
TM50QTL- (*)	50.0	1.50	136	TM2500QTL- (*)	2.5	70	184
TM100QTL- (*)	100.0	2.80	144	TM5000QTL- (*)	5.0	140	192
TM150QTL- (*)	150.0	3.90	149	TM10,000QTL- (*)	10.0	270	200
TM250QTL- (*)	250.0	7.00	156	TM15,000QTL- (*)	15.0	430	205
TM500QTL- (*)	500.0	15.00	164	TM25,000QTL- (*)	25.0	850	212
TM1000QTL- (*)	1.0 H	27.00	173	TM50,000QTL- (*)	50.0	1500	221

** Add either -M, -F or -H to designate construction.*

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THORDARSON MEISSNER®

COMMON MODE LINE & NOISE SUPPRESSION INDUCTORS FOR AC LINE & EMI-RFI FILTERING

Common mode suppression inductors minimize AC line-conducted interference from switching power supplies and regulators. Balun winding to within 1% produces opposing magnetic fluxes in the core to effectively cancel differential-mode noise signals. Substantially reduces component count as well as inductor size, as compared to differential filtering. Constructed with spacing between windings to meet international safety requirements.

FEATURES

- 3750V RMS hi-pot.
- VDE, IEC, UL, CSA compatible.
- 130°C insulation system
- Cost effective design.

TM1C SERIES

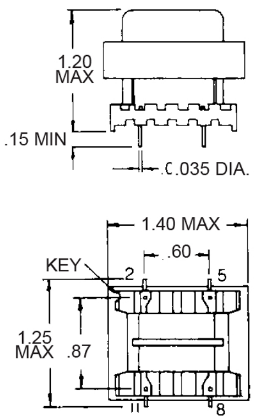


Fig. A
TM1C series Wt. .42 oz.

TM1C/2C SERIES

Part No.	"L" mH Min.	RMS Max. Amps	DCR Max. ohms	Fig.
TM1C-16800	12.60	0.50	1.0000	A
TM1C-07900	5.93	0.75	0.4300	A
TM1C-04900	3.67	1.00	0.2200	A
TM1C-03770	2.77	1.25	0.1560	A
TM1C-01960	1.47	1.50	0.1100	A
TM1C-01280	0.96	2.00	0.0710	A
TM1C-00840	0.63	2.50	0.0460	A
TM1C-00490	0.37	3.00	0.0270	A
TM1C-00290	0.21	4.00	0.0175	A
TM2C-14000	14.00	0.25	2.1000	B
TM2C-05250	5.25	0.37	0.8300	B
TM2C-03250	3.25	0.50	0.5200	B
TM2C-01450	1.45	0.75	0.2200	B
TM2C-00750	0.75	1.00	0.1200	B
TM2C-00330	0.33	1.50	0.0520	B
TM2C-00120	0.12	2.00	0.0240	B

NOTES: Inductance shown is for each winding measured @ 10 kHz, 1V RMS. Inductance with each winding connected series opposing under 100 µH typical @ 10 kHz, 1V RMS. Inter winding capacitance: 5 pF typical @ 10 kHz, 1V RMS.

TM2C SERIES

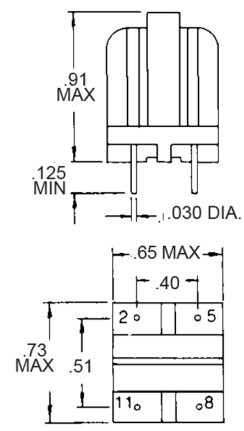
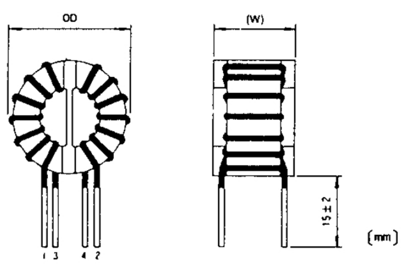


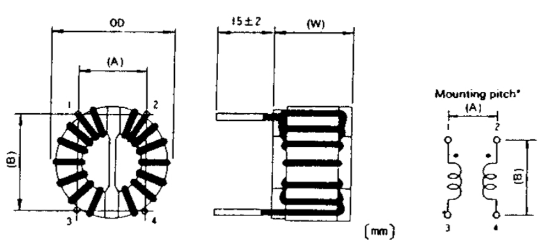
Fig. B
TM2C series Wt. .30 oz.

These common mode coils have excellent frequency characteristics, are compact and lightweight. They have application in noise suppression of DC switching regulator circuits, noise elimination of ultrasonic equipment, switching power supplies, equipment using microcomputers, color TV's, VCR's, audio equipment, office automation and sequence controllers.

TMC COIL VERTICAL TYPE (1A-5A)



TMC COIL HORIZONTAL TYPE (10A-30A)



SPECIFICATIONS

Model	Rated Current (A)	Inductance Min (mH)	DC Resistance Max. (mΩ/line)	Temp. Rise Max. (deg.)	Wire Size(ø)	Dimensions (mm)			
						OD Max.	W Max.	A (Max.)	B (Max.)
TMC-02-100	2	1	110	40	0.6	23	14	7	10
TMC-02-200	2	2	110	40	0.6	23	18	10	19
TMC-02-300	2	3	100	40	0.6	27	20	10	19
TMC-02-500	2	5	100	45	0.6	27	20	10	19
TMC-05-100	5	1	50	40	0.8	25	18	10	19
TMC-05-200	5	2	70	45	0.8	32	22	18	21
TMC-05-500	5	5	80	50	0.8	34	22	18	21
TMC-05-800	5	8	85	60	0.8	34	22	18	21
TMC-10-100	10	1	20	40	1.3	34	22	22	21
TMC-10-200	10	2	28	40	1.3	47	27	30	30
TMC-15-050	15	0.5	20	50	1.5	35	22	20	22
TMC-15-100	15	1	20	60	1.5	36	25	22	21
TMC-15-200	15	2	12	45	1.8	50	28	35	35
TMC-20-100	20	1	8	40	2.3	60	30	40	40
TMC-30-100	30	1	6	40	2.6	62	35	55	20

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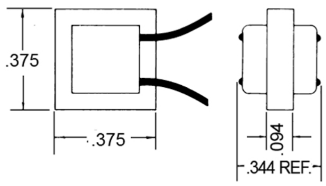
THORDARSON MEISSNER®

Open Frame and Encapsulated Styles for PC Boards

Thordarson Unusually Small Series
Frequency Response ±2dB 300 to 10,000 Hz

Measured at level stated for 300 Hz. Miniaturized design offers a relatively high power level and printed circuit packaging. Response measured at level stated for 300 Hz. Mfd. per MIL-T-27.

Open Frame TM-UF

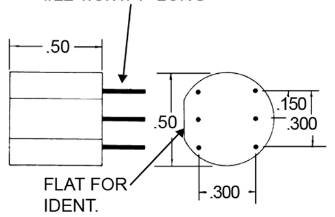


To order add-F to Part No., i.e. UM22-F. Wt. 0.08 oz. 4" #30 color coded leads.
MIL Designation: TF6S21ZZ

Thordarson Meissner Part No.	Primary Impedance	Secondary Impedance	Pri. Unbal. maDC	Pri. DCR	Sec. DCR	Level MW@ 300hz	Level MW@ 1 kHz
TM26U-(*)	400	11	3.0	35	1.5	15	500
TM27U-(*)	400 CT	11	6.0	35	1.5	15	500
TM25U-(*)	400	50	3.0	35	5.0	15	500
TM29U-(*)	600 CT	600 CT	7.0	45	60.0	5	400
TM24U-(*)	1000	50	3.0	65	10.0	5	500
TM33U-(*)	1000 CT	600	6.0	80	65.0	5	500
TM32U-(*)	1500 CT	600	5.0	135	65.0	5	500
TM39U-(*)	2500 CT	600 CT	2.0	250	50.0	5	500
TM34U-(*)	10,000 CT	600 CT	2.0	850	40.0	5	500
TM31U-(*)	10,000 CT	1200 CT	2.0	850	120.0	5	500
TM37U-(*)	10,000	2000 CT	1.0	850	200.0	5	500
TM35U-(*)	15,000 CT	15,000 CT	1.0	930	1210.0	5	300
TM36U-(*)	20,000 CT	800 CT	0.5	1100	80.0	5	500
TM22U-(*)	20,000	1000	0.5	1100	100.0	5	300
TM23U-(*)	20,000	1200 CT	0.5	1100	110.0	5	300
TM21U-(*)	100,000	1000	0.0	1900	135.0	5	70
TM30U-(*)	Choke	1.5 H (0 mA) 0.7 H (2 mA) 100 DCR					
TM28U-(*)	Choke	10 H (0 mA) 8 H (0.5 mA) 650 DCR					
TM90U	Magnetic Shield Mu-metal slip-on can for TM-UM series. 20 dB shielding 0.594"D x 0.562" high.						

(*) Add either -F, or -M, to Part No. to designate construction.
Power levels shown are for 7.5% maximum distortion.

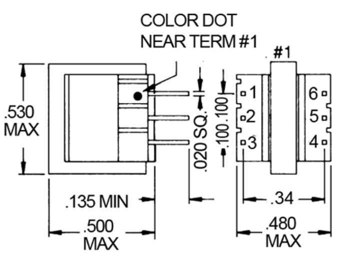
Molded TM-UM



To order add-M to Part No. TM-UM. Wt. 0.14 oz. 4"
MIL Designation: TF5S21ZZ

Thordarson Very Small Series
Frequency Response ±2dB 200 to 10,000 Hz

Open Frame Printed Circuit TM-V-PC

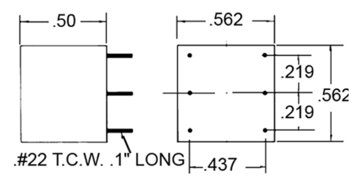


Small Footprint Plug-in Printed Circuit Construction Vacuum Varnish Impregnated. Wt. 0.16 oz.

Thordarson Meissner Part No.	Primary Impedance	Secondary Impedance	Pri. Unbal. maDC	Pri. DCR	Sec. dcr	Level MW@ 1 kHz
TM1V-(*)	50	600	5.500	7	90.0	15.0
TM7V-(*)	500	3.4	3.500	50	0.5	15.0
TM16V-(*)	500 CT	250 CT	7.500	50	25.0	15.0
TM14V-(*)	600 CT	600 CT	7.000	50	65.0	15.0
TM8V-(*)	1250	3.4	2.000	135	0.5	15.0
TM9V-(*)	1250	50	2.000	135	6.5	15.0
TM10V-(*)	2500	2500 CT	1.500	225	215.0	3.0
TM17V-(*)	10,000 CT	5000 CT	0.000	400	300.0	5.0
TM12V-(*)	20,000	1000	0.160	625	85.0	5.0
TM13V-(*)	20,000	1000 CT	0.160	625	85.0	5.0
TM3V-(*)	25,000	600	0.150	720	45.0	5.0
TM5V-(*)	50,000	600	0.100	830	55.0	5.0
TM15V-(*)	50,000 CT	50,000 CT	0.000	2000	2600.0	5.0
TM6V-(*)	100,000	1200 CT	0.070	2000	150.0	5.0
TM2V-(*)	200,000	600	0.050	3000	110.0	2.5
TM4V-(*)	200,000	1200	0.035	3100	165.0	5.0
TM11V-(*)	Choke	20 H (0 mA) 12 H (0.5 mA)		1000.0		
TM90	Magnetic shield Mu-metal slip-on can for TM-M series. 20dB shielding. 0.625" x 0.625" x 0.531" high.					

* Add either -M, -PC or -FPB to Part No. to designate construction.

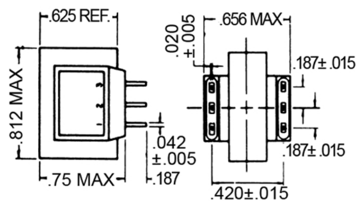
Molded TM-VM



Epoxy molded. Wt 0.25oz. To order add-M to Part No.
MIL Designation: TF5S21ZZ

Thordarson Decidedly Compact Series
Frequency Response 200-15,000 Hz ±2dB

Open Frame TM-DCM-PC



Thordarson Meissner Part No.	Primary Impedance	Secondary Impedance	Pri Unbal. MA DC	Operating Level DBM
TM1DCM-PC	25,000 CT	1200 CT	2	18
TM2DCM-PC	15,000 CT	15,000 CT	3	19
TM3DCM-PC	15,000 CT	600 CT	3	19
TM4DCM-PC	10,000 CT	5,000 CT	4	20
TM5DCM-PC	10,000	2500/625 SPLIT	2	20
TM6DCM-PC	10,000 CT	1500 CT	4	20
TM7DCM-PC	5000 CT	80,000 CT	6	15
TM8DCM-PC	4000 CT	1200 CT	6	20
TM9DCM-PC	4000 CT	600 CT	6	20
TM10DCM-PC	4000	600/150 SPLIT	3	20
TM11DCM-PC	2500 CT	2500 CT	8	20
TM12DCM-PC	2500	2500/625 SPLIT	4	20
TM13DCM-PC	2500 CT	625 CT	8	20
TM14DCM-PC	2500 CT	200 CT	8	20
TM18DCM-PC	600 CT	50,000 CT	16	20
TM19DCM-PC	600	8000/2000 SPLIT	8	20
TM20DCM-PC	600 CT	200 CT	16	20
TM21DCM-PC	600 CT	600 CT	16	20
TM22DCM-PC	250 CT	600 CT	25	20
TM51DCM-PC	Choke	10 H @ 0 mA DC	5 H @ 3 mA DC	300 DCR
TM52DCM-PC	Choke	5 H @ 0 mA DC	2 H @ 5 mA DC	155 DCR
TM53DCM-PC	Choke	2.5 H @ 0 mA DC	1 H @ 7 mA DC	75 DCR

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THORDARSON MEISSNER®

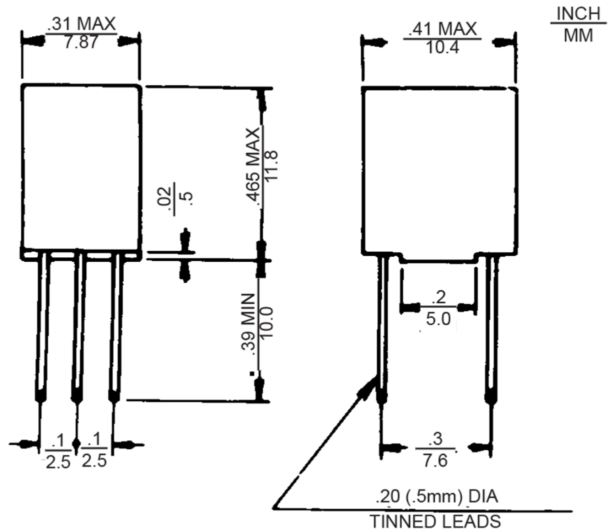
MINIATURE ENCAPSULATED AUDIO TRANSFORMERS (MET SERIES) 0.310” X 0.410” X 0.465”

These transformers offer exceptional performance characteristics for use in all high performance impedance matching circuits requiring miniature components; including input, interstage, isolation, telcom and output circuit applications.These transformers are designed and constructed to meet the requirements of MIL-T-27. They feature a molded case construction with a base mounting pad for easy inspection of solder joints; high strength tinned nickel leads meet a 2.0 lb on axis of pin terminal strength; and weigh less than 3.0 grams.

Miniature size..................................0.310” x 0.410” x 0.465”
Meets requirements of...................MIL-T-27
Dielectric strength...........................1000 VRMS (with *1500VRMS)
Insulation resistance.......................10K M OHMS
Max operating temperature ....105°C

Thermal shock.................................5 cycles -55°C to 105°C
Response...±2db, 300Hz to 100kHz
Max distortion................................. 10 to 25% at rated power
Impedance range ....3.2 to 200K OHMS

Mechanical Dimensions



Thordarson Meissner Part Number	Matching Impedance		MAX. Unbal Pri DC mA	D.C.R.		Max Mw Power Level @300Hz	Turns Ratio		Conn. Fig.
	Pri.	Sec.		Pri	Sec.		Pri.	Sec.	
MET-44-T	300CT	12	7.0	42	3.4	50	5.0	1.0	3
MET-41-T	300CT	600	7.0	41	90	50	0.71	1.0	3
MET-39-T	500	50	3.0	55	8	50	3.16	1.0	4
MET-37-T	500CT	600	3.0	65	95	50	0.91	1.0	3
MET-35-T	600CT	8	4.5	60	1.5	50	8.66	1.0	3
*MET-32-T	600	600CT 150 SPLIT	3.0	70	95	50	1.0	1.0/1.0	2
*MET-31-T	600CT	600CT	3.0	70	95	50	1.0	1.0	1
*MET-46-T	600	600	3.0	72	93	50	1.0	1.0	4
*MET-29-T	900CT	600	3.0	80	95	50	1.22	1.0	3
MET-24-T	1.5KCT	600	3.0	160	95	50	1.58	1.0	3
MET-22-T	2.5KCT	2.5KCT	1.0	280	350	40	1.0	1.0	1
MET-20-T	8.0KCT	3.2	1.0	1000	0.8	40	50.0	1.0	3
MET-18-T	10KCT	4.0	1.0	1200	1.0	40	50.0	1.0	3
MET-50-T	10K	125	0.0	1100	29	10	8.62	1.0	4
MET-17-T	10KCT	500CT	1.0	1000	90	40	4.47	4.47	1
MET-13-T	10KCT	1.5KCT	1.0	1000	260	40	2.58	1.0	1
MET-11-T	10KCT	2.0KCT	1.0	1000	300	40	2.23	1.0	1
MET-45-T	10K	10K, 2.5K SPLIT	1.0	1000	1300	50	2.0	1.0/1.0	2
MET-09-T	10KCT	10KCT	1.0	1000	1300	40	1.0	1.0	1

METC-99-T is mu metal slip on shield for above parts.

Schematic and Connection Diagrams

Fig 1

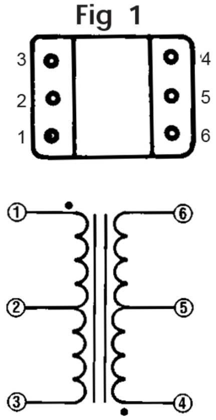


Fig 2

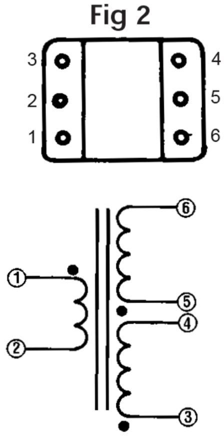


Fig 3

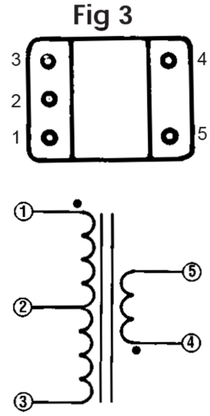
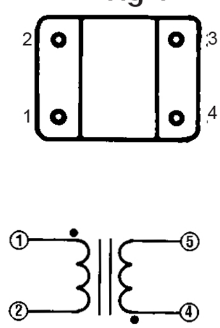


Fig 4



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UL-CSA UNREGULATED SERIES- Input 120V 60Hz.

SECT	Part Number	Rated Output VDC	Rated Output MADC	CSA Approval
A	318A2212-T	3.0	500	LISTED
	216A4222-T	4.5	350	COMPLY
	416A2219-T	4.5	600	LISTED
B	318A2226-T	6.0	300	LISTED
	318A4227-T	6.0	400	LISTED
	416A2226-T	6.0	600	LISTED
	820A4660-T	6.0	1200	COMPLY
	825A2617-T	6.0	2000	N/A
C	521A4318-T	7.0	1200	LISTED
	318A2138-T	7.5	300	LISTED
	420A2128-T7	7.5	500	LISTED
	318A4248-T	8.5	100	LISTED
D	310A2223-T9	9.0	50	LISTED
	212A2136-T	9.0	100	LISTED
	318A2138-T9	9.0	150	LISTED
	416A4136-T	9.0	500	LISTED
	820A4465-T	9.0	900	COMPLY
E	318A2045-T12	12.0	150	LISTED
	318A4146-T	12.0	200	LISTED
	416A2141-T	12.0	300	LISTED
	420A4141-T	12.0	500	LISTED
	825A4425G-T	12.0	900	LISTED
	521A4317-T	12.0	1000	LISTED
F	420A2249-T	14.0	350	LISTED
	820A4279G-T	16.0	400	LISTED
	420A4143-T	20.0	280	LISTED
	318A4049-T	24.0	50	LISTED
	811A4214-T	*	300	LISTED

UL-CSA UNREGULATED SERIES- Input 120V 60Hz.

	Part Number	VDC	MADC	REG	CSA
G	420AR4203-T	5.0	350	0.5	COMPLY
	816AR4201-T	5.0	600	0.2	COMPLY
	420AR4207-T	6.0	400	0.5	COMPLY
	816AR4103-T	9.0	400	0.2	COMPLY
	816AR4104-T	12.0	300	0.2	COMPLY

Physical Dimensions In Inches

Model Series	L	W	H
212A, 216A	2.087	1.417	1.496
310A	2.362	1.772	1.654
416A,420A	2.402	2.165	1.614
818F	2.953	2.165	1.969
816A	3.189	2.323	2.047
820A, 825A	3.228	2.362	1.889

UL-CSA AC-AC SERIES - Input: 120v 60Hz. CLASS II Transformers

SECT	Part Number	Rated Output VAC	Rated Output MA RMS	CSA Approval
H	420A0003-T	9.0	800	COMPLY
	420A0001-T	11.0	600	LISTED
	310A0002-T	12.0	110	COMPLY
	825A0001-T	12.0	1300	N/A
	818A0001-T	17.0CT	500	LISTED
	420A0005-T	24.0	450	COMPLY
	825A0003-T	24.0	660	N/A

European VDE Models

VDE Unregulated Series - Input: 220v 50Hz.

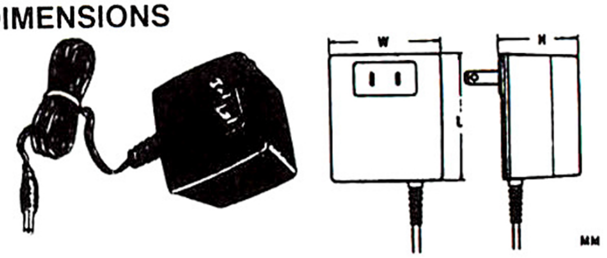
SECT	Part Number	Rated Output VDC	Rated Output MADC	CSA Approval
I	818F4225-T	6.0	400	LISTED
	818F4124-T	12.0	500	LISTED

VDE Regulated Models - Input: 220v 50Hz.

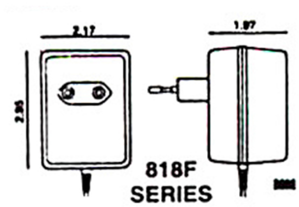
SECT	Part Number	Rated Output VDC	Rated Output MADC	CSA Approval
J	818FR4104-T	6.0	400	LISTED
	818FR4107-T	9.0	300	LISTED
	818FR4109-T	12.0	250	LISTED

NOTES:
*Switched output voltages: 3.0-4.5-6.0-7.5-9.0 VDC and Universal Output plug.
G in Part No. indicates 3 wire line cord and grounded input plug.

UL-CSA SERIES DIMENSIONS



EUROPEAN SERIES DIMENSIONS



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PRODUCT CAPABILITIES

TRANSFORMERS

- Power - Both Rectified/Unrectified
- Inverter
- Single Frequency
- Audio Input
- Interstage
- Output
- Inverter, Toroidal
- Converter, Toroidal, DC to DC
- Plate, Oil/Liquid Filled
- 3 Phase Power, Delta, Wye, Star
- Line Isolation, Multi-Shielded
- Voltage Regulator
- Voltage Distribution
- Bio-Medical Isolation
- Filament, Low to High Power
- Machine Tool
- Constant Voltage
- Matching 25.0V Line and 70.7V Line

INDUCTORS

- Power - Single & Multiple
- Single Frequency Misc.
- Audio, Single & Multiple
- Charging
- Miniature Transistor
- High Q. Low Frequency
- Toroidal Precision Inductance
- Liquid Filled
- High Current

FOREIGN POWER CONVERTERS

DEGAUSSING COIL

PRODUCT CAPABILITIES CHART		POWER TRANSFORMERS	AUDIO TRANSFORMERS	CHOKES INDUCTORS
VA or WATTS		Up To 7.5KVA	Up To 100	
Amps		Up To 50A		Up To 50A DC
Voltages	Primary	Up To 1000V	As Req'd	As Req'd
	Secondary	Up To 1000V	As Req'd	As Req'd
Frequency	Laminated	25-1000Hz	20-20KHz	As Req'd
	Ferrite	Up To 200KHz	Audio Range	As Req'd
Regulation	Under 20 Watts	20%	As Req'd	N/A
	20-100 Watts	10%	As Req'd	N/A
	100-150 Watts	5%	As Req'd	N/A

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THORDARSON MEISSNER®

TRANSFORMER DESIGN ELECTRICAL PERFORMANCE REQUIREMENTS

If you will complete this form, Thordarson Meissner will provide you with a custom proposal to meet you transformer specifications.

Company			Phone	
Address		City	State	Zip
Requested by			Title	
Quantity Needed	Date Needed		Budgetary Price	

Transfer Type

❑ Audio	❑ Power	❑ Interstage	❑ Ferro (VC)	❑ Choke	❑

Electrical Requirements

Winding	RMS Volts	RMS Load	DC Volts*	DC Load	Resistance
Primary 1					
Primary 2					
Primary 3					
Shield	❑ Electrostatic		❑ Magnetic		❑
Secondary 1					
Secondary 2					
Secondary 3					

Operating Parameters

Power	Regulation: _____%	❑ 50/60 Hz ❑ 400 Hz ❑
Audio	Bandwith	from ______ H to ______ H @ ______ Hz
	Impedence	Primary ______ Ω Secondary ______ Ω
Choke	Inductance	______ H @ ______V AC, ______mA DC
Ferro	Resonance Capacitor _______ µF	Recitifer: ❑ Bridge ❑ Center tap
	Current limiting _______ amps	Duty Cycle: Time ON ______ Time OFF______

Termination Style

❑ Wire Leads		
❑ Quick Disconnects	❑ Solder Lugs	❑

Insulation Requirement

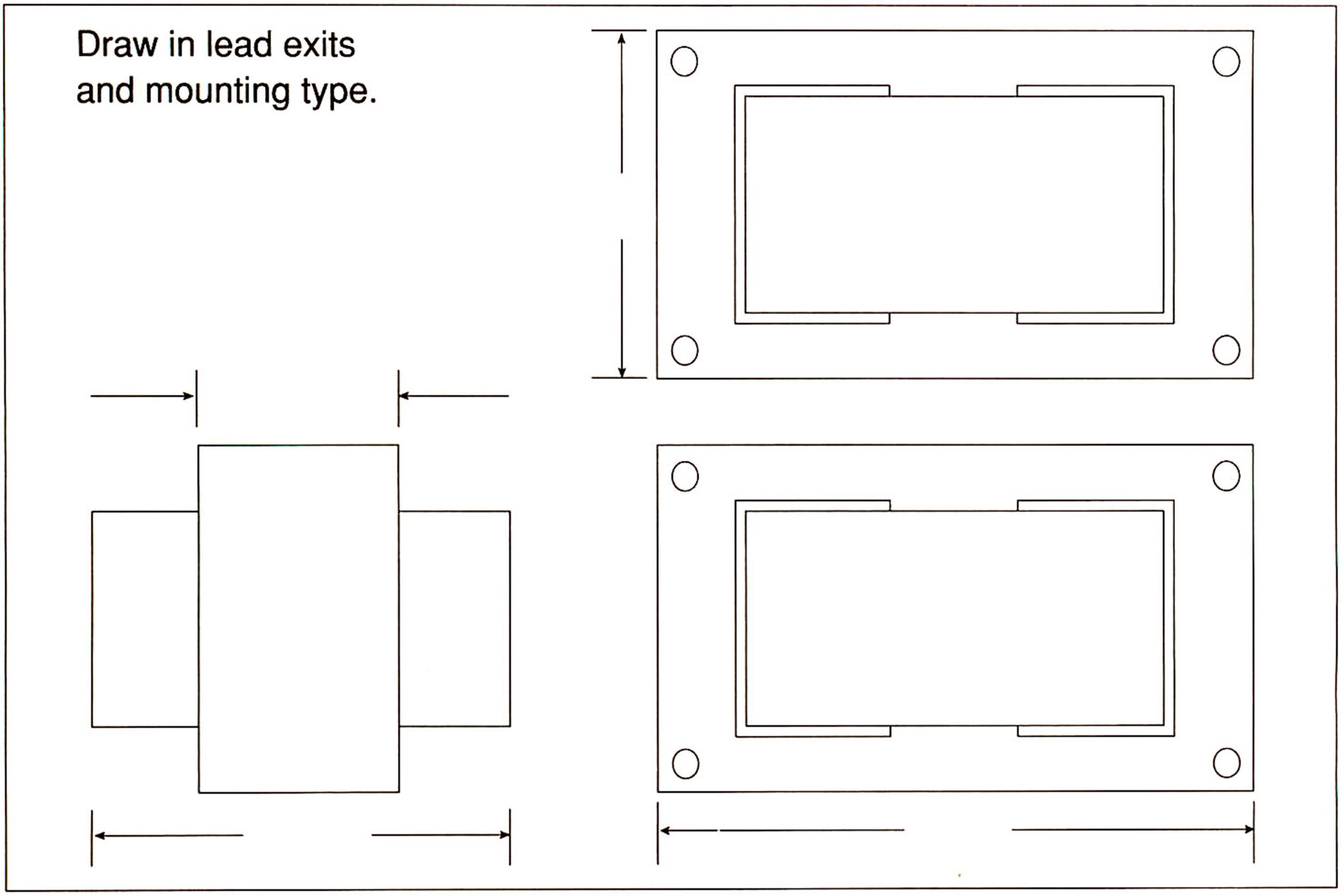
❑ Class A (105C)	❑ Class B (130C)	❑ Class F (155C)	❑ Class H (180C)	❑ Class R (220C)

Agency Approval Requirement

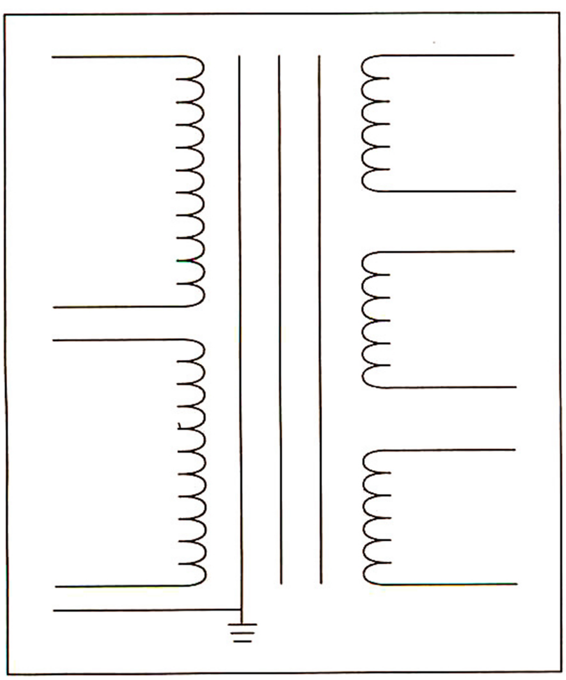
❑ CSA	❑ FCC	❑ TUV	❑ VDE	❑ UL	❑

TRANSFORMER OUTLINE DRAWING & SCHEMATIC DIAGRAM

Please use these drawings to indicate physical specifications.



Special Requirements



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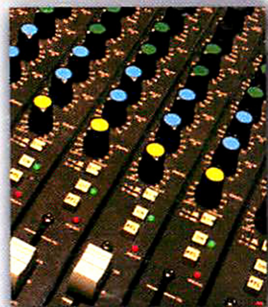

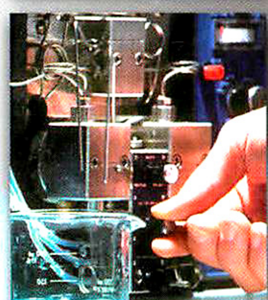

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