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LAMINATED TRANSFORMERS OVERVIEW



With the addition of **era**'s encapsulated 50/60Hz transformers to the existing line of Pulse open frame transformers, Pulse now offers a complete line of laminated transformers for all your low power, linear transformer needs. With power ratings from 0.08VA to 175VA, fully encapsulated transformers, split bobbin designs, and a wide variety of domestic and international agency approvals, Pulse is truly the one stop shop for all your 50/60Hz needs.

Advantages of Encapsulated Transformers:

- Better heat dissipation achieved through vacuum encapsulation, resulting in more output power from a smaller, more compact design.
- Vacuum encapsulation provides protection against external influences (e.g. wash operations) and mechanical stress (e.g. vibration). It also reduces the potential of noise through vibration.
- Dimensional accuracy of each transformer guaranteed by stable and controlled manufacturing processes, allowing for automatic pick and place operations.

This catalog serves as an overview for the Pulse Laminated Transformer product line. Please contact Pulse Power Applications Engineering for more information. For Pulse's complete line of Power Inductors, Transformers, Chokes and Current Sense Magnetics, please see the Switching Power Magnetics catalog.

NOTE: For additional listings of Pulse Power magnetics, see other Power data sheets at this URL: <http://www.pulseeng.com/products/dataSheets.aspx>

OVERVIEW: LAMINATED TRANSFORMERS



Mini-Line THT* (EE20)

- Up to 0.5VA
- Temperature class t_a 70°C/B



Print-Line THT* (EI30-EI54)

- Up to 16VA
- Temperature class t_a 70°C/B (EI 30 / EI 42)
- Temperature class t_a 40°C/B (EI 48 / EI 54)



Low Profile THT* (UI30)

- Up to 10VA
- Temperature class t_a 40°C/B

With Mounting Brackets* (EI42-EI54)

- Up to 16VA
- Temperature class t_a 70°C/B (EI 42)
- Temperature class t_a 40°C/B (EI 48 / EI 54)



Compact Power Supplies

- Vdc or Vac secondary
- Temperature class t_a 40°C/B
- Din-rail Mounting



Printed Circuit Mount

- International
- Split bobbin: single (ST) and dual primary (DST)
- Low profile
- Concentric vertical profile single (PC) and dual primary (DPC)



Chassis Mount

- International
- Split bobbin: single (241) and dual primary (DP241)

*Potted under vacuum, two-chamber bobbin, custom designs available upon request, THT = Through Hole.



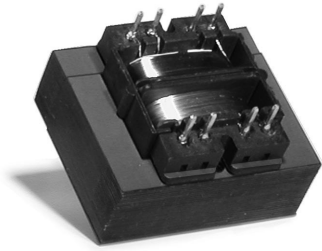
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LAMINATED TRANSFORMERS

Low Frequency, Open-Style Laminated, International PC Plug-In Series



AGENCY APPROVALS

- UL, 506, File E73539
- UL Recognized Class B
- UL 1446, File E179499
- CSA 22.2#66, File LR68051-2
- TUV, EN61558

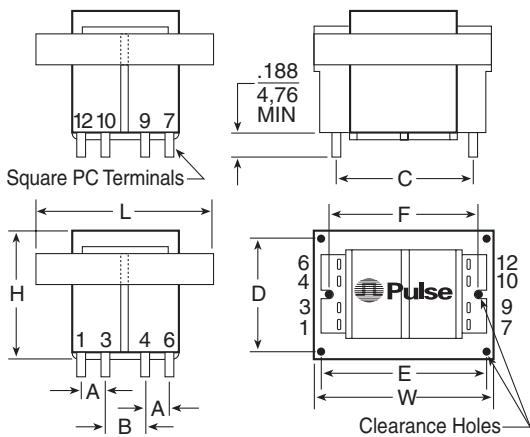





- ⚙️ PC board plug-in mounting
- ⚙️ Double reinforced insulation
- ⚙️ Dual bobbin; high (4000V) primary to secondary isolation
- ⚙️ Non-concentric design - eliminates ESS and reduces primary to secondary capacitance
- ⚙️ No crossover between primary/secondary leads
- ⚙️ Vacuum impregnated - withstands board washing systems and reduces audible noise
- ⚙️ Baked resin provides an environmentally-resistant finish

Part No. PC Mount	VA (Size)	Secondary RMS Rating	
		Series	Parallel
14A-2.5-10B1	2.5	10V C.T. @ 0.25A	5V @ 0.5A
14A-5.0-10B2	5	10V C.T. @ 0.5A	5V @ 1.0A
14A-10-10B3	10	10V C.T. @ 1.0A	5V @ 2.0A
14A-20-10B4	20	10V C.T. @ 2.0A	5V @ 4.0A
14A-30-10B5	30	10V C.T. @ 3.0A	5V @ 6.0A
14A-56-10B6	56	10V C.T. @ 5.6A	5V @ 11.2A
14A-2.5-12B7	2.5	12.6V C.T. @ 0.2A	6.3V @ 0.4A
14A-5.0-12B8	5	12.6V C.T. @ 0.4A	6.3V @ 0.8A
14A-10-12B9	10	12.6V C.T. @ 0.8A	6.3V @ 1.6A
14A-20-12B10	20	12.6V C.T. @ 1.6A	6.3V @ 3.2A
14A-30-12B11	30	12.6V C.T. @ 2.4A	6.3V @ 4.8A
14A-56-12B12	56	12.6V C.T. @ 4.4A	6.3V @ 8.8A
14A-2.5-16B13	2.5	16V C.T. @ 0.15A	8V @ 0.3A
14A-5.0-16B14	5	16V C.T. @ 0.31A	8V @ 0.62A
14A-10-16B15	10	16V C.T. @ 0.62A	8V @ 1.25A
14A-20-16B16	20	16V C.T. @ 1.25A	8V @ 2.5A
14A-30-16B17	30	16V C.T. @ 1.9A	8V @ 3.8A
14A-56-16B18	56	16V C.T. @ 3.5A	8V @ 7.0A
14A-2.5-20B19	2.5	20V C.T. @ 0.12A	10V @ 0.24A
14A-5.0-20B20	5	20V C.T. @ 0.25A	10V @ 0.5A
14A-10-20B21	10	20V C.T. @ 0.5A	10V @ 1.0A
14A-20-20B22	20	20V C.T. @ 1.0A	10V @ 2.0A
14A-30-20B23	30	20V C.T. @ 1.5A	10V @ 3.0A
14A-56-20B24	56	20V C.T. @ 2.8A	10V @ 5.6A
14A-2.5-24B25	2.5	24V C.T. @ 0.1A	12V @ 0.2A
14A-5.0-24B26	5	24V C.T. @ 0.21A	12V @ 0.42A
14A-10-24B27	10	24V C.T. @ 0.42A	12V @ 0.84A
14A-20-24B28	20	24V C.T. @ 0.83A	12V @ 1.66A
14A-30-24B29	30	24V C.T. @ 1.25A	12V @ 2.5A
14A-56-24B30	56	24V C.T. @ 2.33A	12V @ 4.66A
14A-2.5-28B31	2.5	28V C.T. @ 0.09A	14V @ 0.18A
14A-5.0-28B32	5	28V C.T. @ 0.18A	14V @ 0.36A
14A-10-28B33	10	28V C.T. @ 0.36A	14V @ 0.72A
14A-20-28B34	20	28V C.T. @ 0.72A	14V @ 1.44A
14A-30-28B35	30	28V C.T. @ 1.06A	14V @ 2.12A
14A-56-28B36	56	28V C.T. @ 2.0A	14V @ 4.0A
14A-2.5-36B37	2.5	36V C.T. @ 0.07A	18V @ 0.14A
14A-5.0-36B38	5	36V C.T. @ 0.14A	18V @ 0.28A
14A-10-36B39	10	36V C.T. @ 0.28A	18V @ 0.56A
14A-20-36B40	20	36V C.T. @ 0.56A	18V @ 1.12A
14A-30-36B41	30	36V C.T. @ 0.82A	18V @ 1.64A
14A-56-36B42	56	36V C.T. @ 1.56A	18V @ 3.12A

Mechanical

Schematic



Dimensions (inches)

VA (size)	Wt. (lb.)	L	W	H	A	B	C	D	E	F	Pin Dim.	E
2.5	0.25	1.625	1.312	1.125	0.20	0.250	1.00	—	—	1.062	.025 SQ	#4
5	0.37	1.625	1.312	1.375	0.20	0.400	1.00	—	—	1.062	.025 SQ	#4
10	0.53	1.875	1.562	1.375	0.20	0.400	1.14	—	—	1.250	.038 SQ	#4
20	0.90	2.25	1.875	1.625	0.40	0.400	1.46	—	—	1.500	.038 SQ	#4
30	1.15	2.625	2.187	1.562	0.55	0.275	1.68	2.18	1.75	—	.045 SQ	#6
56	1.70	3.000	2.500	1.812	0.60	0.300	1.90	2.50	2.00	—	.045 SQ	#6

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