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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

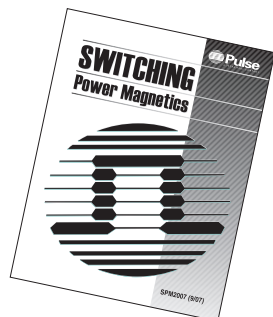
- International
- Split bobbin: single (ST) and dual primary (DST)
- Low profile
- Concentric vertical profile single (PC) and dual primary (DPC)



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.



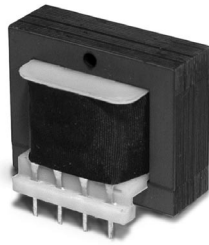
For all other Pulse Inductors and Transformers, check out Pulse's SWITCHING POWER MAGNETICS catalog. To order, see our website:

www.pulseeng.com

Go to Products/Literature Request and ask for **SPM2007** catalog

LAMINATED TRANSFORMERS

Low Frequency, Open-Style Laminated, Concentric Vertical Profile, 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



PC Series Concentric Vertical Mount

Isolation between primary and secondary of 1500V.

Vacuum Impregnated to withstand modern board washing systems and to reduce audible noise.

Available in single or dual primary

Baked Resin provides fully cured and environmentally resistant finish that will not peel or flake.

Rugged Construction

Universal Design compatible with industry-standard footprints

D PC - 10 - 2400 B 4

Primary Rating
No First Letter – 115V – 6-pin
“D” First Letter – 115/230V – 8-pin

Secondary Voltage Rating
(Volts RMS)

Secondary Current Rating
(mA RMS)

Individual Specification

Transformer Series
PC – Single Section Bobbin
(47/500Hz)

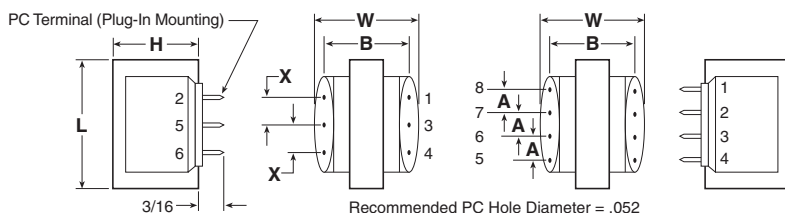
Mechanical Configuration
B – No frame

Dimensions (inches)

Size	VA	Wt. (oz.)	L	H	W	B	6-pin X	8-pin A
25	1.0	2.5	1.000	0.830	1.375	1.200	0.250	0.200
37	1.2	3	1.375	1.188	1.125	1.000	0.312	0.200
50	4.4	5	1.625	1.375	1.250	1.100	0.400	0.250
62	10	9	1.875	1.625	1.438	1.300	0.400	0.250
24	24	12	1.625	1.375	2.250	2.100	0.400	0.250

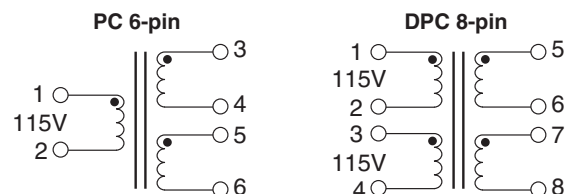
Mechanical

Dimensions for Style B (no frame) are shown.



Single 115V 6-Pin	Dual 115/230V 8-Pin	Size	Series V.C.T. @ mA	Parallel @ 2x Current V. @ mA
PC-10-90B53	DPC-10-90B53	25	10 @ 90	5 @ 180
PC-10-120B1	DPC-10-120B1	37	10 @ 120	5 @ 240
PC-10-440B2	DPC-10-440B2	50	10 @ 440	5 @ 880
PC-10-1000B3	DPC-10-1000B3	62	10 @ 1000	5 @ 2000
PC-10-2400B4	DPC-10-2400B4	24	10 @ 2400	5 @ 4800
PC-12-70B54	DPC-12-70B54	25	12.6 @ 70	6.3 @ 140
PC-12-100B5	DPC-12-100B5	37	12.6 @ 100	6.3 @ 200
PC-12-350B6	DPC-12-350B6	50	12.6 @ 350	6.3 @ 700
PC-12-800B7	DPC-12-800B7	62	12.6 @ 800	6.3 @ 1600
PC-12-2000B8	DPC-12-2000B8	24	12.6 @ 2000	6.3 @ 4000
PC-16-55B55	DPC-16-55B55	25	16 @ 55	8 @ 110
PC-16-75B9	DPC-16-75B9	37	16 @ 75	8 @ 150
PC-16-260B10	DPC-16-260B10	50	16 @ 260	8 @ 520
PC-16-640B11	DPC-16-640B11	62	16 @ 640	8 @ 1280
PC-16-1500B12	DPC-16-1500B12	24	16 @ 1500	8 @ 3000
PC-20-45B56	DPC-20-45B56	25	20 @ 45	10 @ 90
PC-20-60B13	DPC-20-60B13	37	20 @ 60	10 @ 120
PC-20-220B14	DPC-20-220B14	50	20 @ 220	10 @ 440
PC-20-500B15	DPC-20-500B15	62	20 @ 500	10 @ 1000
PC-20-1200B16	DPC-20-1200B16	24	20 @ 1200	10 @ 2400
PC-24-35B57	DPC-24-35B57	25	24 @ 35	12 @ 70
PC-24-50B17	DPC-24-50B17	37	24 @ 50	12 @ 100
PC-24-180B18	DPC-24-180B18	50	24 @ 180	12 @ 360
PC-24-450B19	DPC-24-450B19	62	24 @ 450	12 @ 900
PC-24-1000B20	DPC-24-1000B20	24	24 @ 1000	12 @ 2000
PC-28-30B58	DPC-28-30B58	25	28 @ 30	14 @ 60
PC-28-40B49	DPC-28-40B49	37	28 @ 40	14 @ 80
PC-28-160B50	DPC-28-160B50	50	28 @ 160	14 @ 320
PC-28-360B51	DPC-28-360B51	62	28 @ 360	14 @ 720
PC-28-800B52	DPC-28-800B52	24	28 @ 800	14 @ 1600
PC-34-25B59	DPC-34-25B59	25	34 @ 25	17 @ 50
PC-34-35B21	DPC-34-35B21	37	34 @ 35	17 @ 70
PC-34-125B22	DPC-34-125B22	50	34 @ 125	17 @ 250
PC-34-300B23	DPC-34-300B23	62	34 @ 300	17 @ 600
PC-34-700B24	DPC-34-700B24	24	34 @ 700	17 @ 1400
PC-40-20B60	DPC-40-20B60	25	40 @ 20	20 @ 40
PC-40-30B25	DPC-40-30B25	37	40 @ 30	20 @ 60
PC-40-110B26	DPC-40-110B26	50	40 @ 110	20 @ 220
PC-40-250B27	DPC-40-250B27	62	40 @ 250	20 @ 500
PC-40-600B28	DPC-40-600B28	24	40 @ 600	20 @ 1200
PC-56-15B61	DPC-56-15B61	25	56 @ 15	28 @ 30
PC-56-20B29	DPC-56-20B29	37	56 @ 20	28 @ 40
PC-56-80B30	DPC-56-80B30	50	56 @ 80	28 @ 160
PC-56-180B31	DPC-56-180B31	62	56 @ 180	28 @ 360
PC-56-420B32	DPC-56-420B32	24	56 @ 420	28 @ 840
PC-120-8B63	DPC-120-8B63	25	120 @ 8	60 @ 16
PC-120-10B37	DPC-120-10B37	37	120 @ 10	60 @ 20
PC-120-35B38	DPC-120-35B38	50	120 @ 35	60 @ 70
PC-120-85B39	DPC-120-85B39	62	120 @ 85	60 @ 170
PC-120-200B40	DPC-120-200B40	24	120 @ 200	60 @ 400
PC-230-4B65	DPC-230-4B65	25	230 @ 4	115 @ 8
PC-230-5B45	DPC-230-5B45	37	230 @ 5	115 @ 10
PC-230-20B46	DPC-230-20B46	50	230 @ 20	115 @ 40
PC-230-40B47	DPC-230-40B47	62	230 @ 40	115 @ 80
PC-230-100B48	DPC-230-100B48	24	230 @ 100	115 @ 200

Schematics



Mouser Electronics

Authorized Distributor

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Pulse:

[DPC-20-45B56](#) [DPC-56-20B29](#) [DPC-40-20B60](#) [PC-24-35B57](#) [DPC-28-800B52](#) [DPC-20-220B14](#) [DPC-120-10B37](#)
[DPC-24-50B17](#) [DPC-24-35B57](#) [DPC-16-640B11](#) [DPC-120-85B39](#) [DPC-34-700B24](#) [DPC-120-8B63](#) [DPC-12-2000B8](#)
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[30B58](#) [DPC-24-450B19](#) [PC-34-25B59](#) [DPC-16-1500B12](#) [DPC-16-55B55](#) [DPC-56-180B31](#) [DPC-24-1000B20](#) [DPC-](#)
[10-2400B4](#) [DPC-16-260B10](#) [PC-16-1500B12](#) [DPC-120-35B38](#) [DPC-34-25B59](#) [DPC-34-125B22](#) [DPC-230-20B46](#)
[DPC-10-90B53](#) [DPC-20-500B15](#) [DPC-16-75B9](#) [DPC-34-300B23](#) [DPC-20-60B13](#) [DPC-230-40B47](#) [DPC-12-800B7](#)
[DPC-40-30B25](#) [DPC-12-350B6](#) [DPC-12-100B5](#) [DPC-56-420B32](#) [DPC-12-70B54](#) [DPC-24-180B18](#) [DPC-40-110B26](#)
[DPC-56-15B61](#) [DPC-28-40B49](#)