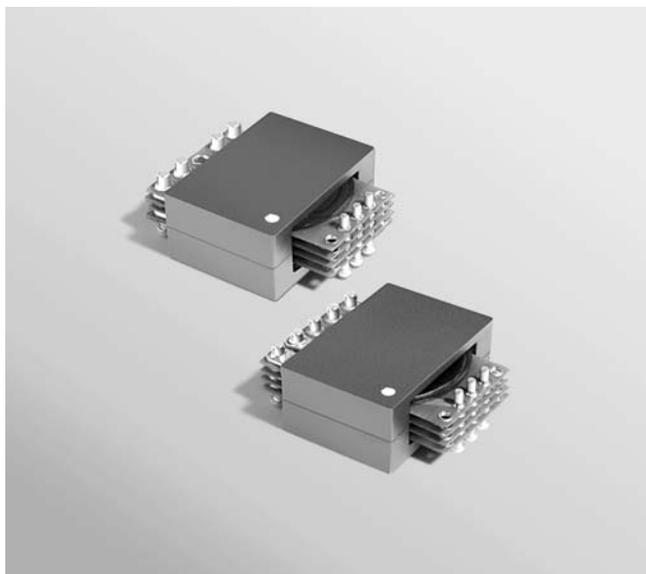


NEW!

SMT Planar Transformers

For Applications
up to 140 Watts



The PL140 surface mount planar transformers are rated for 140 Watts and are designed to operate at frequencies as high as 500 kHz. They are available in 15 turns ratios and six different schematics.

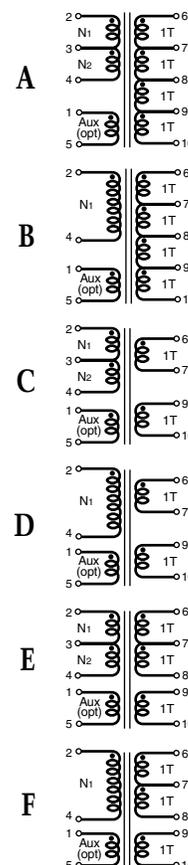
These transformers are ideal for use in high-current power supply applications such as open loop intermediate bus converters (IBC) and closed loop voltage mode converters. They are designed for use with nominal -48 V input. Output voltages depend on the the turns ratio, duty cycle and circuit topology. They offer high efficiency and feature excellent DCR, very low leakage inductance and 1500 Vdc primary to secondary isolation.

Coilcraft can design custom planar transformers with different turns ratios and with an auxiliary winding to meet your specific requirements.

Part number	Primary turns		Schem.	Primary inductance ¹ min (μH)	Leakage inductance ² max (μH)	DCR max (mOhms)	
	N ₁	N ₂				Primary	Secondary
PL140-100	4	4	A	120.0	0.35	12.0 (2-3), 12.0 (3-4)	4.0 (6-10)
PL140-101	9		B	152.0	0.35	32.8 (2-4)	4.0 (6-10)
PL140-102	5	5	A	188.0	0.35	20.8 (2-3), 20.8 (3-4)	4.0 (6-10)
PL140-103	11		B	227.0	0.35	48.8 (2-4)	4.0 (6-10)
PL140-104	6	6	A	270.0	0.45	28.0 (2-3), 28.0 (3-4)	4.0 (6-10)
PL140-105	4	4	C	120.0	0.35	12.0 (2-3), 12.0 (3-4)	0.5 (6-7), 0.5 (9-10)
PL140-106	9		D	152.0	0.35	32.8 (2-4)	0.5 (6-7), 0.5 (9-10)
PL140-107	5	5	C	188.0	0.35	20.8 (2-3), 20.8 (3-4)	0.5 (6-7), 0.5 (9-10)
PL140-108	11		D	227.0	0.50	48.8 (2-4)	0.5 (6-7), 0.5 (9-10)
PL140-109	6	6	C	270.0	0.60	28.0 (2-3), 28.0 (3-4)	0.5 (6-7), 0.5 (9-10)
PL140-110	4	4	E	120.0	0.35	12.0 (2-3), 12.0 (3-4)	1.0 (6-8), 1.0 (9-10)
PL140-111	9		F	152.0	0.35	32.8 (2-4)	1.0 (6-8), 1.0 (9-10)
PL140-112	5	5	E	188.0	0.35	20.8 (2-3), 20.8 (3-4)	1.0 (6-8), 1.0 (9-10)
PL140-113	11		F	227.0	0.35	48.8 (2-4)	1.0 (6-8), 1.0 (9-10)
PL140-114	6	6	E	270.0	0.45	28.0 (2-3), 28.0 (3-4)	1.0 (6-8), 1.0 (9-10)

1. Inductance measured on an Agilent/HP 4284 between pins 2 and 4 at 200 kHz, 0.1 Vrms, 0 Adc.
2. Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 Vrms, 0 Adc with all secondary pins shorted.
3. Storage and ambient operating temperature range: -40°C to +85°C.
4. Electrical specifications at 25°C.

Schematics



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Specifications subject to change without notice.
Please check our website for latest information.

Document 417-1 Revised 02/05/05

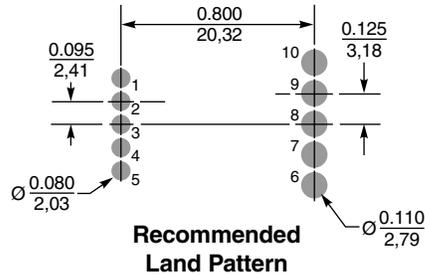
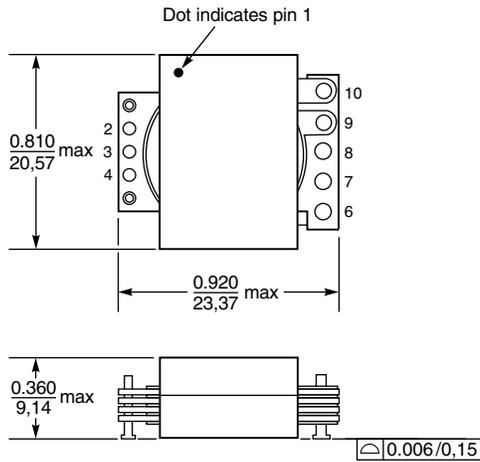
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>

NEW!

PL140 Series SMT Planar Transformers

Dimensions



Note: Pad for pin 3 not necessary for schematics B, D and F. Pad for pin 8 is not necessary for schematics C and D. Pads 1 and 5 are only needed for optional auxiliary winding.

Tape and reel: 200/13" reel 44 mm tape width
For packaging data see Tape and Reel Specifications section.

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Document 417-2 Revised 12/22/04

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E-mail info@coilcraft.com Web <http://www.coilcraft.com>