

MDSL Modem Transformer

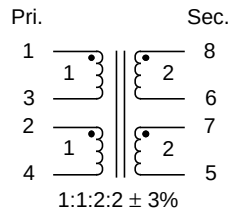
EPB5042

- Excellent THD Performance •
- 1500 Vrms Isolation •
- Operating Temperature 0°C to +70°C •

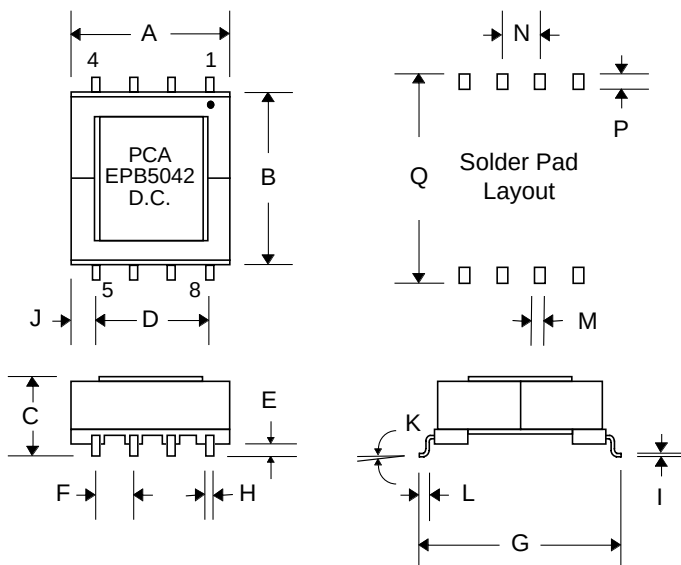
Electrical Parameters @ 25° C

Inductance Chip Side (mH Typ.)	Leakage Inductance (μH Max.)	Interwinding Capacitance (pF Typ.)	Insertion Loss (dB Max.)		Return Loss (dB Min.)	Longitudinal Balance (dB Max.)	THD (dB Max.)	DCR (Ω Max.)	
			1 KHz to 2 MHz	4 KHz to 1 MHz	100 KHz to 1 MHz	20 KHz to 1 MHz	@ 10 KHz	Primary	Secondary
3.25	9	25	-4	-1.1	-10	-60	-85	6	7
Pins 1-4 with 2, 3 shorted					135 Ω RL			Pins 1-4 with 2, 3 shorted	Pins 5-8 with 6, 7 shorted

Schematic



Package



Dimension

Dim.	(Inches)			(Millimeters)		
	Min.	Max.	Nom.	Min.	Max.	Nom.
A	.820	.840	.830	2.083	21.34	21.08
B	.890	.910	.900	22.61	23.12	22.86
C	.370	.390	.380	9.40	9.91	9.66
D	.590	.610	.600	14.99	15.50	15.24
E	.010	.020	.015	.254	.508	.380
F	.195	.205	.200	4.96	5.21	5.08
G	1.04	1.06	1.05	26.42	26.92	26.67
H	.035	.045	.040	.890	1.14	1.02
I	.015	.025	.020	.380	.640	.508
J	---	---	.115	---	---	3.94
K	0	8°	---	0°	8°	---
L	.020	.030	.025	.508	.760	.640
M	---	---	.060	---	---	1.52
N	---	---	.200	---	---	5.08
P	---	---	.075	---	---	1.90
Q	---	---	1.11	---	---	28.20