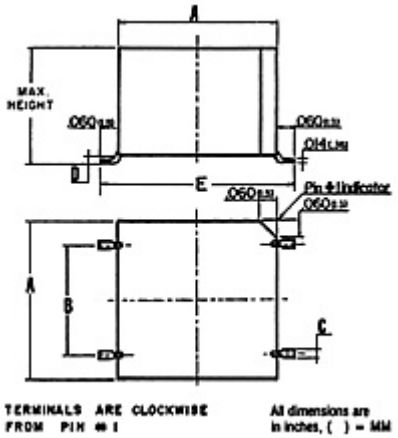
EMI Common Mode Suppression Inductors

SURFACE MOUNT
PICO surface mount units utilize materials and methods to withstand extreme temperatures of vapor phase, I.R., and other reflow procedures without degradation of electrical or mechanical characteristics.

Specifications
- All units manufactured to Mil-PRF-27, Grade 5, Class S.
- Dielectric Strength...1500 Volts RMS
- Windings Balanced ± 1%
- Maximum ambient plus temperature rise limited to 130° C.
- Inductance Tolerance: Minimum inductance is 80% of list value with no maximum value.
- Moisture Sensitivity Level: MSL3
- Terminals: Meets Solderability per MIL-STD-202, Method 208.



Larger size drawing

These inductors are well suited for use in Switching Regulators, DC to DC Power Supplies, and all types of Electrical Equipment where the elimination of line transmitted Electromagnetic Interference is important. Electrical equipment will generate noise due to switching operations of transistors, SCR's, replays, triacs, etc. By using these Inductors, noise being fed to the power line is minimized to an acceptable level and this noise will not interfere with other equipment operating on the same power line.

Inductance (Each Winding)	I RMS (Amps)			RDC (Ohms) Each WDG	Approx. Leakage Inductance (Micro-Henry)	Size	Model Number	Prices 1-9 (US $)
	Temp. Rise 60°C	Temp. Rise 40°C	Temp. Rise 25° C					
50 Micro-Henry	1.02 3.4 6.0 9.9	.82 2.8 5.2 8.2	.72 2.6 4.4 7.2	0.0090 0.0125 0.0063 0.0033	0.35 0.40 0.34 0.29	0 1 2 3	52070 46470 47570 48670	51.90 51.90 51.90 57.06
75 Micro-Henry	.78 2.6 4.8 8.0	.62 2.1 4.2 6.7	.54 1.9 3.6 5.9	0.1500 0.0212 0.0094 0.0085	0.52 0.60 0.54 0.43	0 1 2 3	52065 46465 47565 48665	51.90 51.90 51.90 57.06
100 Micro-Henry	.69 2.3 4.2 6.9	.55 1.8 3.7 5.7	.49 1.7 3.1 5.0	0.0200 0.0288 0.0125 0.0066	0.70 0.80 0.68 0.58	0 1 2 3	52060 46460 47560 48660	51.90 51.90 51.90 57.06

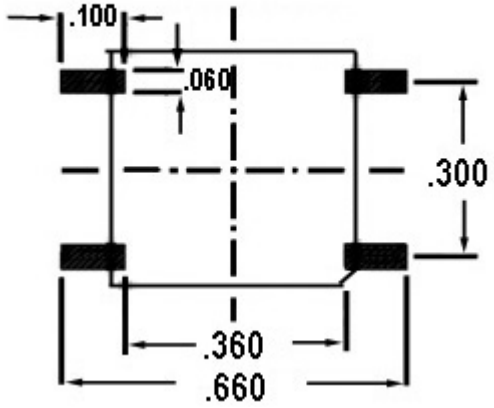
250 Micro-Henry	.42 1.4 2.6 4.4	.34 1.1 2.3 3.7	.30 1.1 1.9 3.3	0.0560 0.0700 0.0313 0.0163	1.8 2.0 1.7 1.4	0 1 2 3	52055 46455 47555 48655	51.90 51.90 51.90 57.06
500 Micro-Henry	.33 1.1 1.8 3.1	.27 0.9 1.7 2.6	.24 0.8 1.4 2.3	0.1300 0.1250 0.0625 0.0325	3.5 4.0 3.4 2.9	0 1 2 3	52050 46450 47550 48650	51.90 51.90 51.90 57.06
750 Micro-Henry	.24 0.8 1.5 2.6	.19 0.7 1.3 1.1	.17 0.6 1.1 1.8	0.1700 0.2125 0.0938 0.0488	5.25 6.0 5.1 4.3	0 1 2 3	52045 46445 47545 48645	51.90 51.90 51.90 57.06
1.0 Milli-Henry	.16 0.81 1.5 2.5	.13 0.66 1.3 2.1	.11 0.61 1.1 1.8	0.5500 0.2300 0.1000 0.0530	.75 8.0 6.8 5.75	0 1 2 3	52040 46440 47540 48640	51.90 51.90 51.90 57.06
2.5 Milli-Henry	0.18 0.52 0.96 1.6	0.07 0.42 0.84 1.3	0.06 0.39 0.71 1.2	0.8800 0.5600 0.2500 0.1310	17.5 20 17 14.400	0 1 2 3	52035 46435 47535 48635	51.90 51.90 51.90 57.06
5.0 Milli-Henry	0.06 0.37 0.68 1.1	0.48 0.3 0.59 0.9	0.03 0.28 0.5 0.82	1.6200 1.1000 0.5000 0.2630	37 40 34 28.800	0 1 2 3	52030 46430 47530 48630	51.90 51.90 51.90 57.06
7.5 Milli-Henry	0.3 0.55 0.9	0.24 0.48 0.8	0.22 0.41 0.67	1.7000 0.7500 0.3940	60 51 43.100	1 2 3	46425 47525 48625	51.90 51.90 57.06
10 Milli-Henry	0.26 0.48 0.8	0.21 0.42 0.7	0.19 0.35 0.57	2.3000 1.0000 0.5300	80.0 68.0 57.5	1 2 3	46420 47520 48620	51.90 51.90 57.06
15 Milli-Henry	0.21 0.39 0.64	0.17 0.34 0.53	0.16 0.29 0.47	3.4000 1.5000 0.7900	120 102 86	1 2 3	46415 47515 48615	51.90 51.90 57.06
17.5 Milli-Henry	0.2 0.36 0.59	0.16 0.32 0.49	0.15 0.27 0.44	3.9400 1.7500 0.9190	140 119 101	1 2 3	46410 47510 48610	51.90 51.90 57.06
20 Milli-Henry	0.18 0.34 0.56	0.15 0.30 0.46	0.14 0.25 0.41	4.5000 2.0000 1.0500	160 136 115	1 2 3	46405 47505 48605	51.90 51.90 57.06

Size	Max. Height	A	B	C	D	E
0	.260 (6.60)	.400 (10.16)	.300 (7.62)	.020 (0.50)	.020 (0.50)	.520 (13.21)
1	.305 (7.75)	.450 (11.43)	.300 (7.62)	.025 (0.64)	.020 (0.51)	.570 (14.48)
2	.360 (9.14)	.550 (13.97)	.400 (10.16)	.031 (0.79)	.025 (0.64)	.670 (17.02)
3	.440 (11.18)	.650 (16.51)	.500 (12.70)	.031 (0.79)	.025 (0.64)	.770 (19.56)
Units are in inches. ( ) = millimeters						

Click Here for Thru Hole Version of this Series

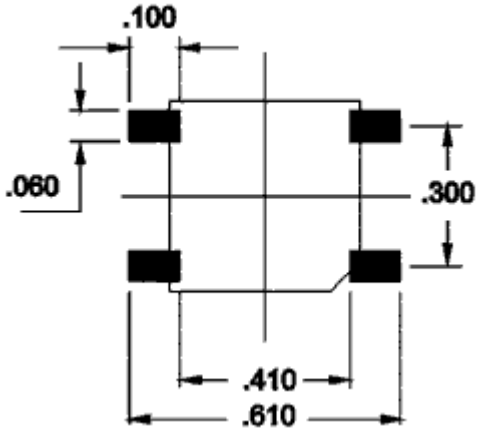
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 52000 Series Size 0



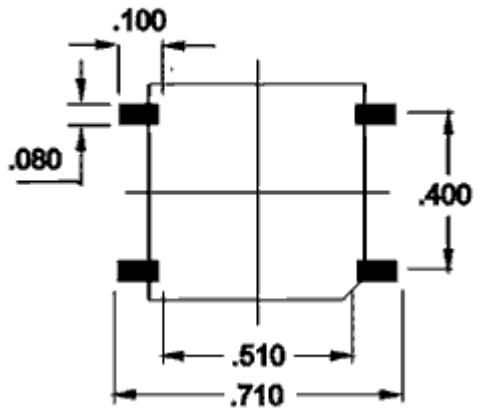
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 46000 Series Size 1



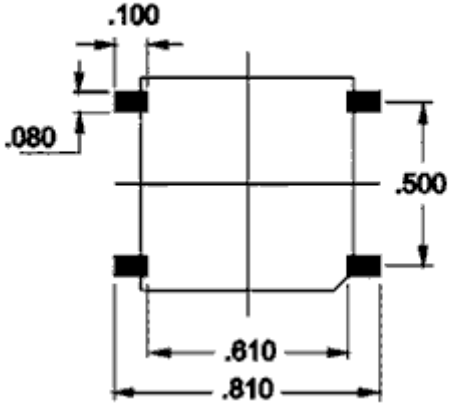
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 47000 Series Size 2



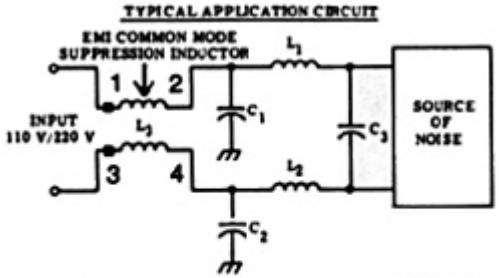
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 48000 Series Size 3



Ordering Instructions:
No minimum.
Net 30 days F.O.B. Pelham, NY
Delivery--stock to one week for sample orders.

- Minimum possible size
- 130° C operation (Ambient plus temperature rise)
- Windings balance ± 1%
- Dielectric strength...1500 Volts RMS



A TYPICAL CIRCUIT FOR THE ELIMINATION OF NOISE IS SHOWN ABOVE. THE FILTER CONTAINS TWO STAGES, ONE FOR COMMON MODE NOISE (L_3, C_1, C_2) AND ONE FOR CONDUCTED NOISE (L_1, L_2, AND C_3).

For immediate engineering assistance or to place an order:
Call Toll Free: 800-431-1064

PICO Electronics, Inc.

143 Sparks Ave. Pelham, NY 10803-1810
Tel: 914-738-1400 or Fax: 914-738-8225

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