

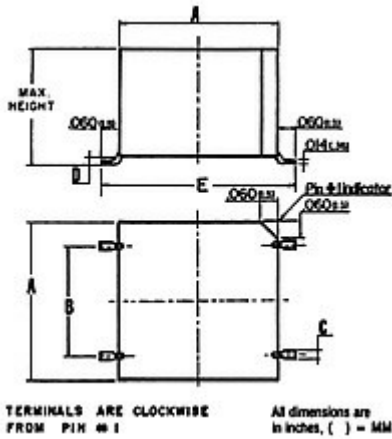


EMI Common Mode Suppression Inductors

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



[Larger size drawing](#)

- All units manufactured to Mil-PRF-27, Grade 5, Class S.
- Dielectric Strength...1500 Volts RMS
- Windings Balanced $\pm 1\%$
- 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

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	.82	.72	0.0090	0.35	0	52070	43.99
	3.4	2.8	2.6	0.0125	0.40	1	46470	43.99
	6.0	5.2	4.4	0.0063	0.34	2	47570	43.99
	9.9	8.2	7.2	0.0033	0.29	3	48670	48.37
75 Micro- Henry	.78	.62	.54	0.1500	0.52	0	52065	43.99
	2.6	2.1	1.9	0.0212	0.60	1	46465	43.99
	4.8	4.2	3.6	0.0094	0.54	2	47565	43.99
	8.0	6.7	5.9	0.0085	0.43	3	48665	48.37
100 Micro- Henry	.69	.55	.49	0.0200	0.70	0	52060	43.99
	2.3	1.8	1.7	0.0288	0.80	1	46460	43.99
	4.2	3.7	3.1	0.0125	0.68	2	47560	43.99
	6.9	5.7	5.0	0.0066	0.58	3	48660	48.37
250 Micro- Henry	.42	.34	.30	0.0560	1.8	0	52055	43.99
	1.4	1.1	1.1	0.0700	2.0	1	46455	43.99
	2.6	2.3	1.9	0.0313	1.7	2	47555	43.99
	4.4	3.7	3.3	0.0163	1.4	3	48655	48.37
500 Micro- Henry	.33	.27	.24	0.1300	3.5	0	52050	43.99
	1.1	0.9	0.8	0.1250	4.0	1	46450	43.99
	1.8	1.7	1.4	0.0625	3.4	2	47550	43.99
	3.1	2.6	2.3	0.0325	2.9	3	48650	48.37
	.24	.19	.17	0.1700	5.25	0	52045	43.99

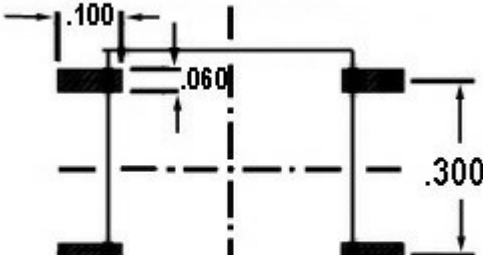
750 Micro-Henry	0.8 1.5 2.6	0.7 1.3 1.1	0.6 1.1 1.8	0.2125 0.0938 0.0488	6.0 5.1 4.3	1 2 3	46445 47545 48645	43.99 43.99 48.37
1.0 Milli-Henry	.16 0.81 1.5 2.5	.13 0.66 1.3 2.1	.11 0.61 1.1 1.8	0.5500 0.2300 0.1000 0.0530	.75 8.0 6.8 5.75	0 1 2 3	52040 46440 47540 48640	43.99 43.99 43.99 48.37
2.5 Milli-Henry	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	43.99 43.99 43.99 48.37
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	43.99 43.99 43.99 48.37
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	43.99 43.99 48.37
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	43.99 43.99 48.37
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	43.99 43.99 48.37
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	43.99 43.99 48.37
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	43.99 43.99 48.37

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 Plug-in Version of this Series](#)

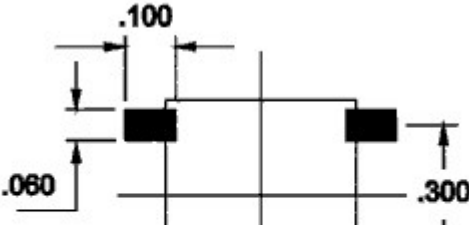
RECOMMENDED LAND PATTERN DIMENSIONS

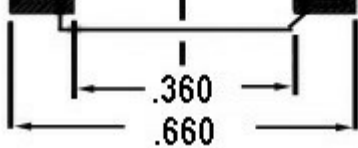
PICO 52000 Series Size 0



RECOMMENDED LAND PATTERN DIMENSIONS

PICO 46000 Series Size 1





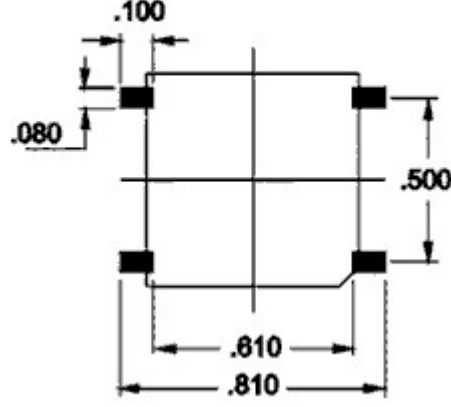
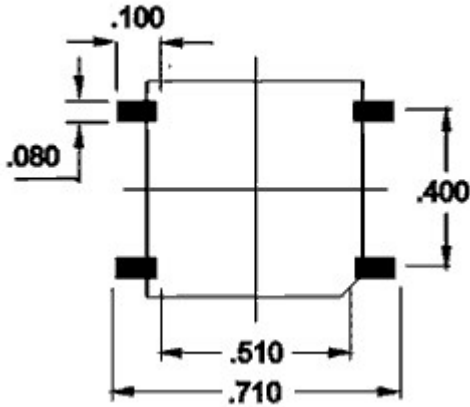
**RECOMMENDED LAND PATTERN
DIMENSIONS**



**RECOMMENDED LAND PATTERN
DIMENSIONS**

PICO 47000 Series Size 2

PICO 48000 Series Size 3



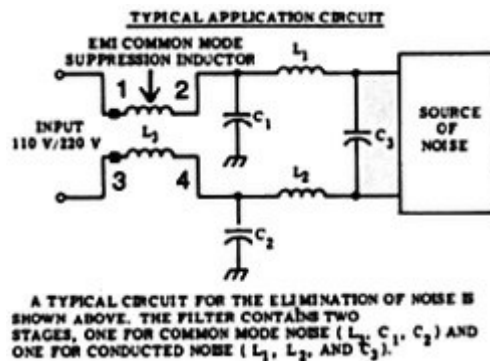
Ordering Instructions:

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 $\pm 1\%$
- Dielectric strength...1500 Volts RMS



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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