



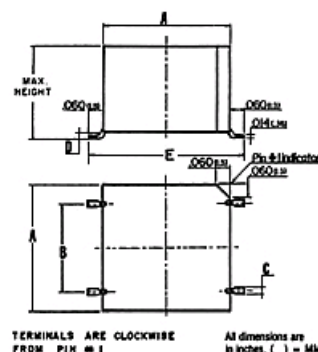
EMI Common Mode Suppression Inductors

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 $\pm 1\%$
- Maximum ambient plus temperature rise limited to 130° C.



[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
	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	27.35
	3.4	2.8	2.6	0.0125	0.40	1	46470	27.35
	6.0	5.2	4.4	0.0063	0.34	2	47570	27.35
	9.9	8.2	7.2	0.0033	0.29	3	48670	30.07
75 Micro-Henry	.78	.62	.54	0.1500	0.52	0	52065	27.35
	2.6	2.1	1.9	0.0212	0.60	1	46465	27.35
	4.8	4.2	3.6	0.0094	0.54	2	47565	27.35
	8.0	6.7	5.9	0.0085	0.43	3	48665	30.07
100 Micro-Henry	.69	.55	.49	0.0200	0.70	0	52060	27.35
	2.3	1.8	1.7	0.0288	0.80	1	46460	27.35
	4.2	3.7	3.1	0.0125	0.68	2	47560	27.35
	6.9	5.7	5.0	0.0066	0.58	3	48660	30.07
250 Micro-Henry	.42	.34	.30	0.0560	1.8	0	52055	27.35
	1.4	1.1	1.1	0.0700	2.0	1	46455	27.35
	2.6	2.3	1.9	0.0313	1.7	2	47555	27.35
	4.4	3.7	3.3	0.0163	1.4	3	48655	30.07
500 Micro-Henry	.33	.27	.24	0.1300	3.5	0	52050	27.35
	1.1	0.9	0.8	0.1250	4.0	1	46450	27.35
	1.8	1.7	1.4	0.0625	3.4	2	47550	27.35
	3.1	2.6	2.3	0.0325	2.9	3	48650	30.07
750 Micro-Henry	.24	.19	.17	0.1700	5.25	0	52045	27.35
	0.8	0.7	0.6	0.2125	6.0	1	46445	27.35
	1.5	1.3	1.1	0.0938	5.1	2	47545	27.35
	2.6	1.1	1.8	0.0488	4.3	3	48645	30.07
1.0 Milli-Henry	.16	.13	.11	.05500	.75	0	52040	27.35
	0.81	0.66	0.61	0.2300	8.0	1	46440	27.35
	1.5	1.3	1.1	0.1000	6.8	2	47540	27.35
	2.5	2.1	1.8	0.0530	5.75	3	48640	30.07
2.5 Milli-Henry	0.18	0.07	0.06	0.8800	17.5	0	52040	27.35
	0.52	0.42	0.39	0.5600	20	1	46435	27.35
	0.96	0.84	0.71	0.2500	17	2	47535	27.35
	1.6	1.3	1.2	0.1310	14.400	3	48635	30.07
5.0 Milli-Henry	0.06	0.48	0.03	1.6200	37	0	52035	27.35
	0.37	0.3	0.28	1.1000	40	1	46430	27.35
	0.68	0.59	0.5	0.5000	34	2	47530	27.35
	1.1	0.9	0.82	0.2630	28.800	3	48630	30.07
7.5 Milli-Henry	0.3	0.24	0.22	1.7000	60	1	46425	27.35
	0.55	0.48	0.41	0.7500	51	2	47525	27.35
	0.9	0.8	0.67	0.3940	43.100	3	48625	30.07

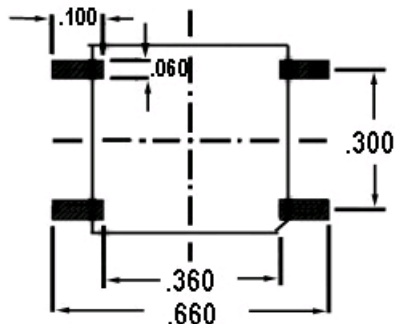
10 Milli-Henry	0.26	0.21	0.19	2.3000	80.0	1	46420	27.35
	0.48	0.42	0.35	1.0000	68.0	2	47520	27.35
	0.8	0.7	0.57	0.5300	57.5	3	48620	30.07
15 Milli-Henry	0.21	0.17	0.16	3.4000	120	1	46415	27.35
	0.39	0.34	0.29	1.5000	102	2	47515	27.35
	0.64	0.53	0.47	0.7900	86	3	48615	30.07
17.5 Milli-Henry	0.2	0.16	0.15	3.9400	140	1	46410	27.35
	0.36	0.32	0.27	1.7500	119	2	47510	27.35
	0.59	0.49	0.44	0.9190	101	3	48610	30.07
20 Milli-Henry	0.18	0.15	0.14	4.5000	160	1	46405	27.35
	0.34	0.30	0.25	2.0000	136	2	47505	27.35
	0.56	0.46	0.41	1.0500	115	3	48605	30.07

Size	Max. Height	A	B	C	D	E
0	.260 (6.60)	.400 (10.16)	.300 (7.62)	0.25 (0.64)	.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)

[Click Here for Plug-in Version of this Series](#)

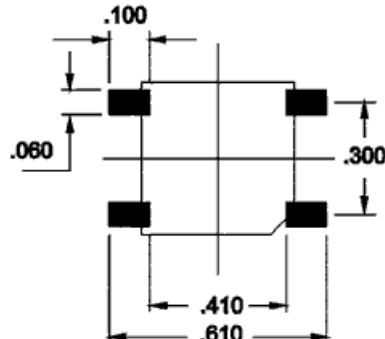
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 52000 Series Size 0



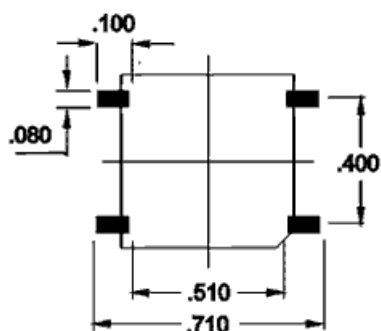
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 46000 Series Size 1



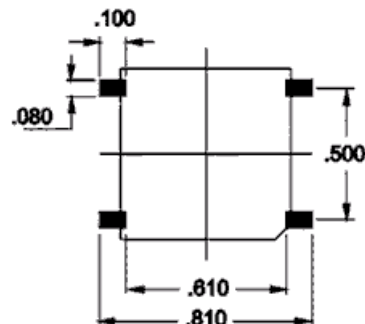
RECOMMENDED LAND PATTERN DIMENSIONS

PICO 47000 Series Size 2



RECOMMENDED LAND PATTERN DIMENSIONS

PICO 48000 Series Size 3

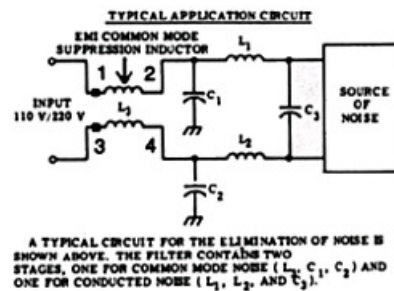


Ordering Instructions:

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 $\pm 1\%$
- 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 10803-1837
Tel: 914-738-1400 or Fax: 914-738-8225

[Go back to Surface Mount Transformers and Inductors Selections](#)