



Miniaturized Power Inductors

Pico Surface Mount Power Inductors are ideal for Noise, Spike, and Power Filtering Applications in Power Supplies, DC-DC Converters and Switching Regulators.

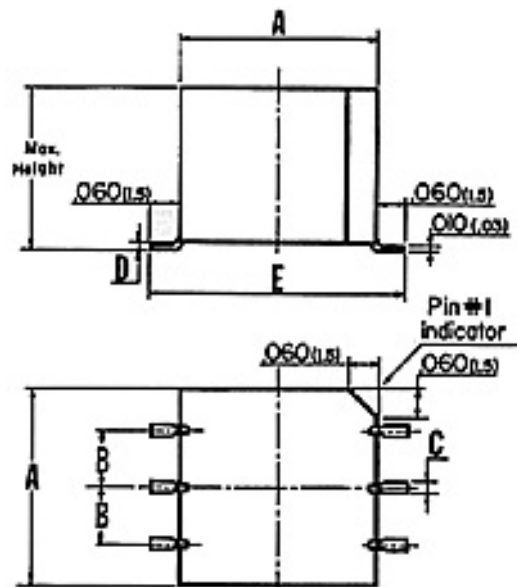
SURFACE MOUNT

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.

- Minimum possible size
- Special high frequency core material to insure low losses
- All units have split windings
- Large selection of sizes available.

Specifications

- All units manufactured to Mil-PRF-27 Grade 5, Class S (Except Size 0 which is Class V)
- Inductance measured at 0.1V RMS -- 10 KHz with zero DC current.
Tolerance is +10 percent to -5 percent.
- Temperature rise at rated D.C. current is less than 30° C. (Size 0 is less than 50°C)
- Maximum ambient is 100° C.



TERMINALS ARE CLOCKWISE FROM PIN #1
NOTE: Pins 2 and 5 are dummy pins.
All dimensions are in inches. () = MM

Bottom View

[Larger size drawing](#)

Surface Mount						
in inches (in millimeters)						
Size	Max. Height	A	B	C	D	E
0	.280 (7.11)	.325 (8.26)	.085 (2.16)	.020 (0.51)	.012 (0.30)	.445 (11.30)
1	.310 (7.87)	.400 (10.16)	.115 (2.92)	.020 (0.51)	.012 (0.30)	.520 (13.21)
2	.365 (9.27)	.495 (12.57)	.140 (3.56)	.027 (0.69)	.015 (0.38)	.615 (15.62)
3	.460 (11.68)	.615 (15.62)	.185 (4.70)	.027 (0.69)	.020 (0.51)	.735 (18.66)

All inductors have split windings--ratings shown in table are for series connection. Parallel connection will have 1/4 inductance at twice the DC current and 1/4 the DC resistance, i.e. parallel connection of PICO 41400 will have 1.25 millihenry at .024 amps with DC resistance of 13.5 Ohms.

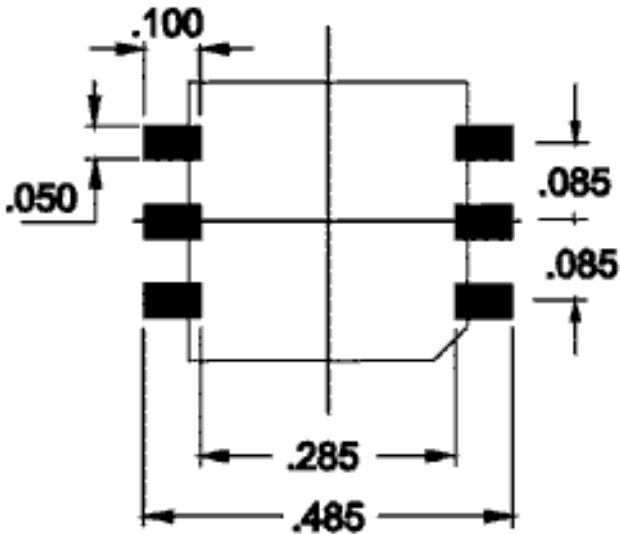
Surface Mount

Inductance	I DC (Amps)	R DC (Ohms)	SRF MHz	Size	Model Number	*** Prices 1-9
20 Milli-Henry	.06	54	0.275	1	41320	31.40
	.10	29	0.207	2	42405	31.40
	.14	20	0.230	3	43403	31.40
15 Milli-Henry	.07	40.5	0.320	1	41340	31.40
	.12	22	0.240	2	42425	31.40
	.16	15	0.235	3	43423	31.40
10 Milli-Henry	.05	75	0.400	0	40350	31.40
	.08	27	0.380	1	41360	31.40
	.14	14.6	0.390	2	42445	31.40
	.20	10	0.340	3	43443	31.40
7.5 Milli-Henry	.058	56	0.500	0	40370	31.40
	.10	20.3	0.450	1	41380	31.40
	.17	11	0.430	2	42465	31.40
	.24	7.5	0.390	3	43463	31.40
5 Milli-Henry	.071	38	0.650	0	40390	31.40
	.12	13.5	0.600	1	41400	31.40
	.21	7.3	0.490	2	42485	31.40
	.30	5	0.550	3	43483	31.40
3 Milli-Henry	.091	22	0.800	0	40410	31.40
	.16	8.1	0.710	1	41420	31.40
	.27	4.4	0.650	2	42505	31.40
	.38	3	0.570	3	43503	31.40
2 Milli-Henry	.112	18	1.000	0	40430	31.40
	.19	5.4	0.950	1	41440	31.40
	.33	2.9	0.850	2	42525	31.40
	.47	2	0.800	3	43523	31.40
1 Milli-Henry	.158	8	1.650	0	40450	31.40
	.27	2.7	1.500	1	41460	31.40
	.47	1.5	1.200	2	42545	31.40
	.66	1	1.100	3	43543	31.40
750 Micro-Henry	.182	6	1.700	0	40470	31.40
	.31	2	1.550	1	41480	31.40
	.54	1	1.400	2	42565	31.40
	.76	.75	1.400	3	43563	31.40
500 Micro-Henry	.224	5	2.300	0	40490	31.40
	.38	1.3	2.100	1	41500	31.40
	.66	.66	1.900	2	42585	31.40
	.93	.5	1.600	3	43583	31.40

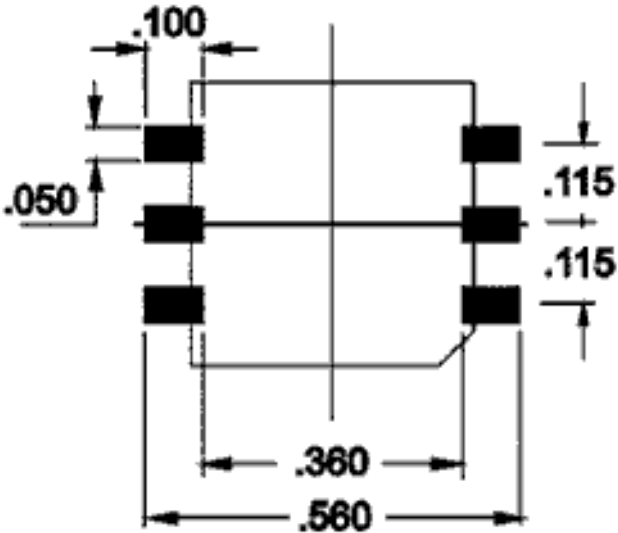
250 Micro-Henry	.316	1.9	3.300	0	40510	31.40
	.53	.66	3.000	1	41520	31.40
	.93	.33	2.500	2	42605	31.40
	1.3	.25	2.400	3	43603	31.40
100 Micro-Henry	.50	.750	4.500	0	40530	31.40
	.78	.300	4.000	1	41540	31.40
	1.35	.170	3.900	2	42625	31.40
	1.95	.110	3.500	3	43623	31.40
40 Micro-Henry	0.79	.4	5.500	0	40550	31.40
	1.18	.141	5.000	1	41560	31.40
	2.03	.070	4.500	2	42645	31.40
	2.68	.060	4.500	3	43643	31.40

[Click Here for Plug-in Version of These Units](#)

RECOMMENDED LAND PATTERN
DIMENSIONS
PICO 40000 Series Size 0



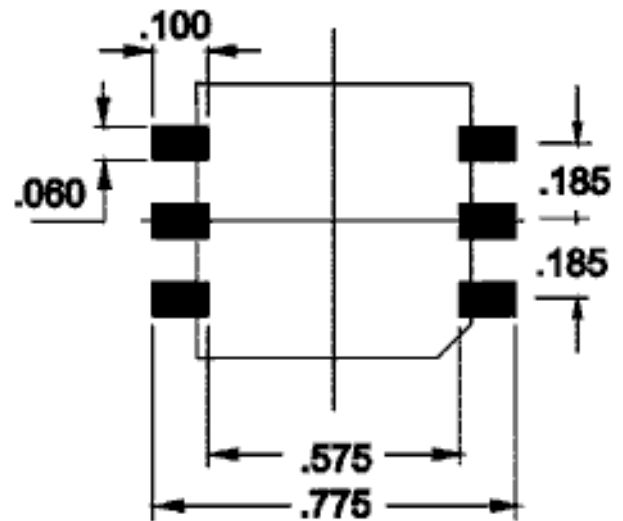
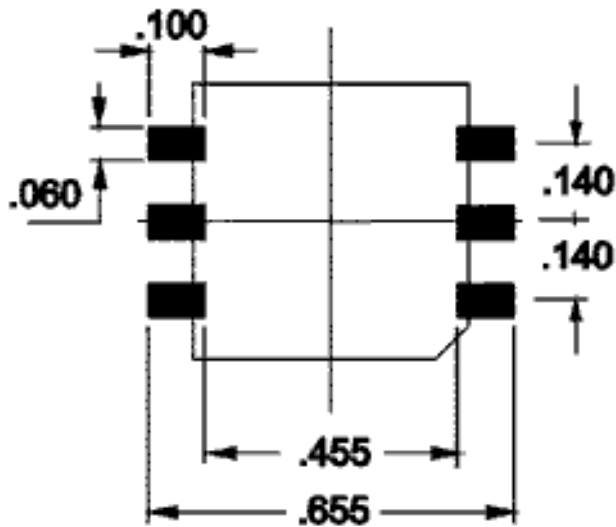
RECOMMENDED LAND PATTERN
DIMENSIONS
PICO 41000 Series Size 1



RECOMMENDED LAND PATTERN
DIMENSIONS

RECOMMENDED LAND PATTERN
DIMENSIONS

PICO 42000 Series Size 2 PICO 43000 Series Size 3



*** Discount Prices:

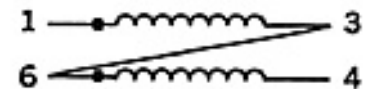
1-9 Net;
 10-24 less 10%;
 25-49 less 16%;
 50-99 less 23%;
 100-499 less 30%

Ordering Instructions:

No minimum.
 Net 30 days F.O.B. Pelham, NY

Delivery--stock to one week for sample orders.

SURFACE MOUNT TERMINAL ARRANGEMENT SERIES CONNECTION



SURFACE MOUNT PARALLEL CONNECTION



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

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