

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.

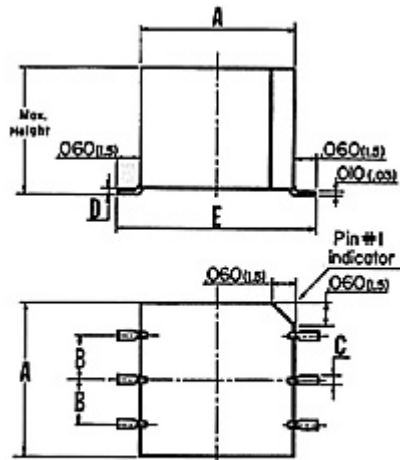
- Minimum possible size
- Special high frequency core material to insure low losses
- All units have split windings
- Large selection of sizes available.

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.
- Moisture Sensitivity Level: MSL3
- Terminals: Meets solderability per MIL-STD-202, Method 208.



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)

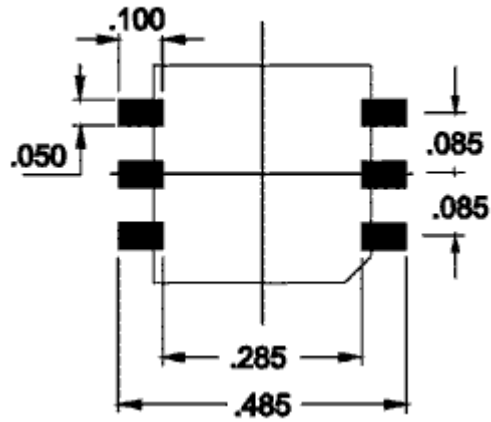
All inductors have split windings--ratings shown in table are for series connection. Parallel connection will have 1/4 inductance at twice the DC current and 1/4 the DC resistance, i.e. parallel connection of PICO 41400 will have 1.25 millihenry at .024 amps with DC resistance of 13.5 Ohms.

Surface Mount						
Inductance	I DC (Amps)	R DC (Ohms)	SRF MHz	Size	Model Number	*** Prices 1-9 (US \$)
20 Milli-Henry	.06	54	0.275	1	41320	59.59
	.10	29	0.207	2	42405	59.59
	.14	20	0.230	3	43403	59.59
15 Milli-Henry	.07	40.5	0.320	1	41340	59.59
	.12	22	0.240	2	42425	59.59
	.16	15	0.235	3	43423	59.59
10 Milli-Henry	.05	75	0.400	0	40350	59.59
	.08	27	0.380	1	41360	59.59
	.14	14.6	0.390	2	42445	59.59
	.20	10	0.340	3	43443	59.59
7.5 Milli-Henry	.058	56	0.500	0	40370	59.59
	.10	20.3	0.450	1	41380	59.59
	.17	11	0.430	2	42465	59.59
	.24	7.5	0.390	3	43463	59.59
5 Milli-Henry	.071	38	0.650	0	40390	59.59
	.12	13.5	0.600	1	41400	59.59
	.21	7.3	0.490	2	42485	59.59
	.30	5	0.550	3	43483	59.59
3 Milli-Henry	.091	22	0.800	0	40410	59.59
	.16	8.1	0.710	1	41420	59.59
	.27	4.4	0.650	2	42505	59.59
	.38	3	0.570	3	43503	59.59
2 Milli-Henry	.112	18	1.000	0	40430	59.59
	.19	5.4	0.950	1	41440	59.59
	.33	2.9	0.850	2	42525	59.59
	.47	2	0.800	3	43523	59.59

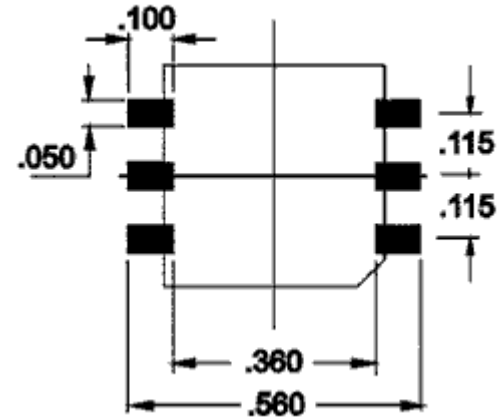
1 Milli-Henry	.158 .27 .47 .66	8 2.7 1.5 1	1.650 1.500 1.200 1.100	0 1 2 3	40450 41460 42545 43543	59.59 59.59 59.59 59.59
750 Micro-Henry	.182 .31 .54 .76	6 2 1 .75	1.700 1.550 1.400 1.400	0 1 2 3	40470 41480 42565 43563	59.59 59.59 59.59 59.59
500 Micro-Henry	.224 .38 .66 .93	5 1.3 .66 .5	2.300 2.100 1.900 1.600	0 1 2 3	40490 41500 42585 43583	59.59 59.59 59.59 59.59
250 Micro-Henry	.316 .53 .93 1.3	1.9 .66 .33 .25	3.300 3.000 2.500 2.400	0 1 2 3	40510 41520 42605 43603	59.59 59.59 59.59 59.59
100 Micro-Henry	.50 .78 1.35 1.95	.750 .300 .170 .110	4.500 4.000 3.900 3.500	0 1 2 3	40530 41540 42625 43623	59.59 59.59 59.59 59.59
40 Micro-Henry	0.79 1.18 2.03 2.68	.4 .141 .070 .060	5.500 5.000 4.500 4.500	0 1 2 3	40550 41560 42645 43643	59.59 59.59 59.59 59.59

[Click Here for Thru Hole Version of These Units](#)

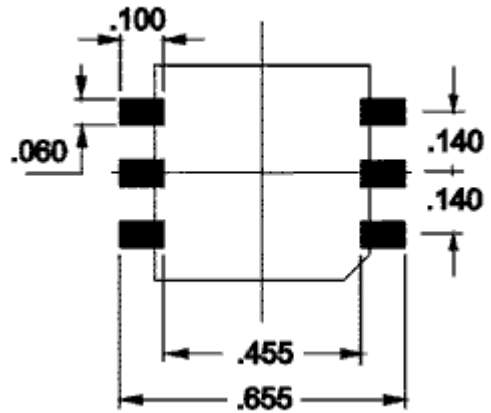
**RECOMMENDED LAND PATTERN DIMENSIONS
PICO 4000 Series Size 0**



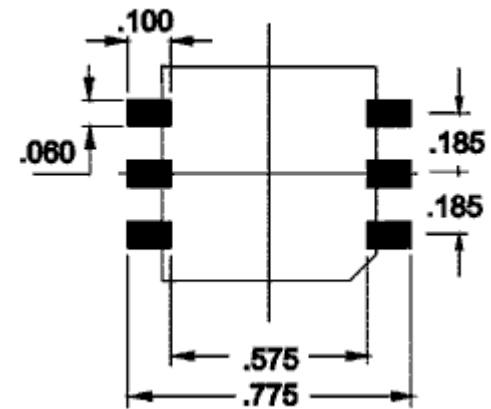
**RECOMMENDED LAND PATTERN DIMENSIONS
PICO 4100 Series Size 1**



**RECOMMENDED LAND PATTERN DIMENSIONS
PICO 4200 Series Size 2**



**RECOMMENDED LAND PATTERN DIMENSIONS
PICO 4300 Series Size 3**



*** Discount Prices:

1-9 Net;

10-24 less 10%;

25-49 less 16%;

50-99 less 23%;

100-499 less 30%

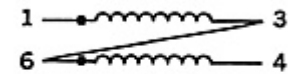
Ordering Instructions:

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 10803-1810

Tel: 914-738-1400 or Fax: 914-738-8225

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