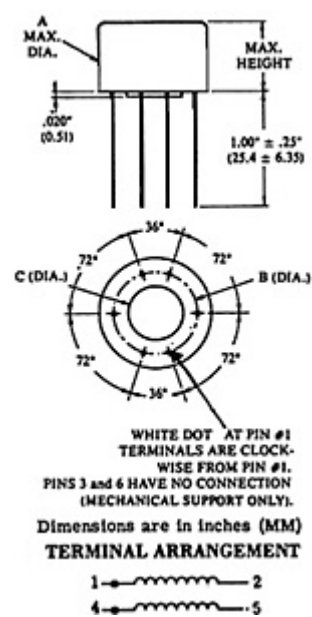


Common EMI Mode Suppression Inductors

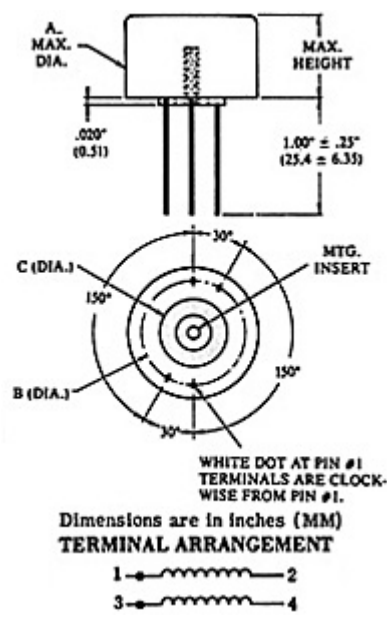
Specifications

- All units manufactured to MIL-PRF-27, Grade 5, Class S
- Inductance measured at 0.1VRMS -10 KHz
- Dielectric Strength 1500 Volts RMS
- Unit has magnetic shield
- Windings Balanced $\pm 1\%$
- Maximum ambient plus temp. rise limited to 130°C (ie. Maximum ambient or part no. 46283 would be 105°C if IRMS is 1.29 AMPS
- Inductance Tolerance: Minimum inductance is 80% of list value with no maximum value

These Inductors are well suited for use in Switching Regulators, DC to DC Power Supplies and all types of Electric Equipment where the elimination of line transmitted Electromagnetic Interference is important. Electrical equipment will generate noise due to switching operations of transistors, SCR's, relays, triacs, etc. By using these inductors, noise being fed back 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.



Larger Size Drawing [1]



Larger Size Drawing [2]

Size	Max. Height	A Max. Dia.	B Bolt Circle	C Stand-Off	Terminal Diameter
1	.280 (7.11)	.410 (10.41)	.260 (6.6)	.160 (4.06)	.012 (.31)
2	.340 (8.64)	.500 (12.7)	.350 (8.89)	.250 (6.35)	.012 (.31)
3	.415 (10.54)	.630 (16.0)	.440 (11.17)	.340 (8.64)	.016 (.41)

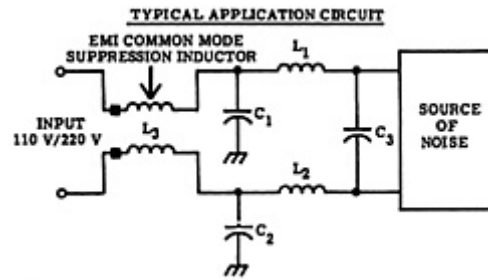
Size	Max. Height	A Max. Dia.	B Bolt Circle	C Standoff	Mtg. Insert	Terminal Diameter
4	.500 (12.7)	.800 (20.32)	.560 (14.22)	.460 (11.68)	2-56 UNC 6 Threads Min.	.016 (.41)
5	.650 (16.51)	.950 (24.13)	.670 (17.0)	.570 (14.48)	6-32 UNC 6 Threads Deep	.020 (.51)
6	.745 (18.92)	1.125 (28.57)	.800 (20.32)	.700 (17.78)	6-32 UNC 6 Threads Deep	.020 (.51)

INDUCT- ANCE	IRMS (AMPS)			RDC. (OHMS) EACH WDG.	APPROX. LEAKAGE INDUCT. (MICRO- HENRY)	SIZE	MODEL NUMBER	PRICE 1-9 (US \$)
	TEMP. RISE 60°C	TEMP. RISE 40°C	TEMP. RISE 25°C					
75 Micro- Henry	1.95	1.57	1.29	.051	3.5	1	46283	68.93
	2.57	2.20	1.90	.033	3.5	2	47291	68.93
	4.43	3.79	3.23	.015	4	3	48381	82.74
185 Micro- Henry	1.25	1.00	.959	.125	5	1	46263	68.93
	1.61	1.39	1.19	.083	5	2	47271	69.93
	2.80	2.39	2.04	.038	4.5	3	48361	82.74
	4.58	3.83	3.06	.019	4.5	4	49461	82.74
375 Micro- Henry	.862	.691	.572	.263	9	1	46243	68.93
	1.14	.986	.851	.163	8	2	47251	68.93
	1.98	1.70	1.44	.075	8	3	48341	82.74
	3.23	2.70	2.16	.037	7.5	4	49441	82.74
	4.70	4.18	3.04	.021	6.5	5	50241	82.74
550 Micro- Henry	.711	.568	.472	.31	10.3	1	46223	68.93
	.924	.792	.686	.20	8.9	2	47231	68.93
	1.62	1.38	1.18	.09	8.4	3	48321	82.74
	2.64	2.20	1.77	.045	7.7	4	49421	82.74
	3.80	3.39	2.46	.026	7.5	5	50221	82.74
750 Micro- Henry	.619	.495	.410	.41	13.8	1	46203	68.93
	.814	.694	.601	.26	11.9	2	47211	68.93
	1.40	1.20	1.02	.12	11.3	3	48301	68.93
	2.29	1.91	1.53	.06	10.3	4	49401	82.74
	3.33	2.96	2.15	.034	10.0	5	50201	82.74
	5.10	4.23	3.77	.022	9.4	6	51303	90.85
1.5 Milli- Henry	.437	.349	.290	.82	27.5	1	46183	68.93
	.575	.491	.425	.52	23.8	2	47191	68.93
	.986	.847	.722	.24	22.5	3	48281	68.93
	1.61	1.36	1.08	.12	20.6	4	49381	82.74
	2.31	2.06	1.50	.07	20.0	5	50181	82.74
	3.78	3.14	2.80	.04	18.8	6	51283	90.85
3 Milli- Henry	.308	.246	.204	1.65	55	1	46163	68.93
	.405	.345	.299	1.05	47.5	2	47171	68.93
	.708	.605	.516	.47	45.0	3	48261	68.93
	1.14	.959	.766	.24	41.3	4	49361	82.74
	1.64	1.45	1.06	.14	40.0	5	50161	82.74
	2.53	2.09	1.86	.09	37.5	6	51263	90.85
6.75 Milli- Henry	.205	.165	.136	3.71	123.8	1	46143	68.93
	.270	.231	.200	2.36	106.9	2	47151	68.93
	.468	.401	.342	1.07	101.3	3	48241	68.93
	.769	.643	.516	.53	92.8	4	49341	82.74
	1.10	.977	.711	.31	90.0	5	50141	82.74
	1.69	1.41	1.25	.20	84.4	6	51243	90.85
12 Milli- Henry	.154	.123	.101	6.6	220	1	46123	68.93
	.202	.172	.150	4.2	190	2	47131	68.93
	.352	.299	.255	1.9	180	3	48221	68.93
	.572	.480	.378	.95	165	4	49321	82.74
	.827	.730	.528	.55	160	5	50121	82.74
	1.28	1.06	.942	.35	150	6	51223	90.85

***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

Typical Circuit

A typical circuit for the elimination of noise is shown. The filter contains two stages, one for common mode noise (L3, C1, C2) and one for conducted noise (L1, L2, and C3).



[Larger Size Schematic](#) ^[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

[Go back to Thru Hole Transformers and Inductors menu](#) ^[4]
