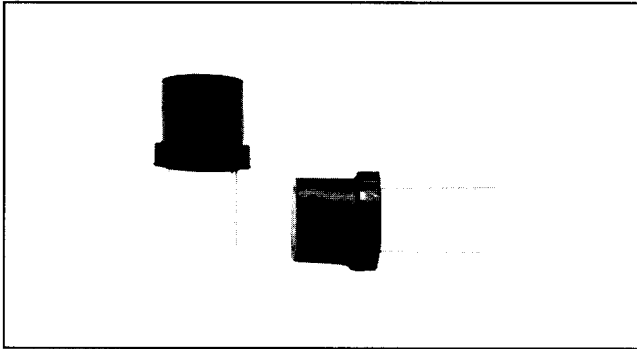


Inductors

Subminiature, Shielded



FEATURES

- Classification is Grade 1, Class B.
- Subminiature shielded.
- Inductance range is .10μH to 100,000μH.
- Printed board mounting facilitated by .200" [5.08mm] grid spacing.
- Radial lead fixed inductor.
- High Q values.
- Unitized epoxy-molded construction.
- Shielded construction to allow maximum density packaging.

ELECTRICAL SPECIFICATIONS

Inductance Tolerance: ± 10%.

Dielectric Strength: 840V RMS at sea level.

Working Voltage: 300 VDC.

Q and SRF Values: Minimum not less than 80% of specified value.

Maximum Current: Based on temperature rise not to exceed 35°C at + 90°C ambient.

MECHANICAL SPECIFICATIONS

Operating Temperature: - 55°C to + 125°C.

Terminal Pull: 3 pounds.

DENSITY SPECIFICATIONS

Weight: 1.5 grams maximum.

Shielding: 3% coupling maximum when two units are tested side by side.

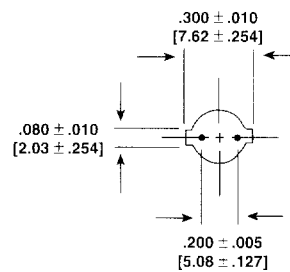
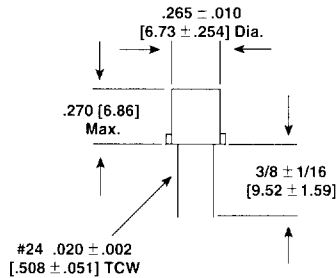
ENVIRONMENTAL SPECIFICATIONS

Moisture: Per MIL-STD-202, Method 106.

Vibration: Low frequency, 10Hz to 55Hz @ .06" [1.52 mm] maximum total excursion at rate of 1 linear sweep per minute for 2 hours repeated for each of three mutually perpendicular planes.

Shock: 100 g, 6 ms, body mounted.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μH)	TOL.	Q NOM.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. NOM. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)
PC	.10	± 10%	70	25	> 250	.030	2500	2500
PC	.12	± 10%	70	25	> 250	.030	2500	2500
PC	.15	± 10%	70	25	> 250	.030	2500	2500
PC	.18	± 10%	70	25	> 250	.035	2400	2400
PC	.22	± 10%	70	25	> 250	.038	2300	2300
PC	.27	± 10%	80	25	> 250	.040	2200	2200
PC	.33	± 10%	80	25	> 250	.040	2200	2200

*Incremental Current: The DC current required to cause a 5% reduction in the nominal inductance value.



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μ H)	TOL.	Q NOM.	TEST FREQ. (MHz)	SELF-RESONANT FREQ. NOM. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)	INCREMENTAL* CURRENT (mA)
PC	.39	$\pm 10\%$	80	25	250	.045	2100	2100
PC	.47	$\pm 10\%$	80	25	230	.045	2100	2100
PC	.56	$\pm 10\%$	80	25	220	.050	2000	2000
PC	.68	$\pm 10\%$	80	25	190	.055	1900	1900
PC	.82	$\pm 10\%$	85	25	180	.060	1800	1800
PC	1.0	$\pm 10\%$	85	25	160	.070	1700	1700
PC	1.2	$\pm 10\%$	90	7.9	170	.085	1670	1670
PC	1.5	$\pm 10\%$	100	7.9	155	.100	1540	1540
PC	1.8	$\pm 10\%$	115	7.9	135	.110	1470	1470
PC	2.2	$\pm 10\%$	110	7.9	120	.120	1410	1410
PC	2.7	$\pm 10\%$	110	7.9	104	.125	1380	1380
PC	3.3	$\pm 10\%$	90	7.9	93	.165	1200	1200
PC	3.9	$\pm 10\%$	90	7.9	87	.180	1135	1135
PC	4.7	$\pm 10\%$	95	7.9	79	.245	985	985
PC	5.6	$\pm 10\%$	95	7.9	72	.265	950	950
PC	6.8	$\pm 10\%$	85	7.9	63	.330	853	853
PC	8.2	$\pm 10\%$	95	7.9	60	.460	720	720
PC	10	$\pm 10\%$	90	7.9	54	.640	620	620
PC	12	$\pm 10\%$	120	2.5	37	.800	545	545
PC	15	$\pm 10\%$	120	2.5	28.8	.865	520	520
PC	18	$\pm 10\%$	115	2.5	23.8	.940	504	504
PC	22	$\pm 10\%$	125	2.5	21.3	1.03	460	460
PC	27	$\pm 10\%$	115	2.5	20.6	1.18	418	418
PC	33	$\pm 10\%$	120	2.5	18.6	1.30	398	398
PC	39	$\pm 10\%$	120	2.5	17.7	1.41	385	385
PC	47	$\pm 10\%$	110	2.5	14.9	1.61	350	350
PC	56	$\pm 10\%$	115	2.5	13.9	2.08	330	333
PC	68	$\pm 10\%$	105	2.5	12.9	2.20	320	330
PC	82	$\pm 10\%$	105	2.5	11.7	2.42	300	320
PC	100	$\pm 10\%$	95	2.5	10.5	2.15	333	300
PC	120	$\pm 10\%$	95	.79	5.6	2.38	316	190
PC	150	$\pm 10\%$	90	.79	5.2	2.52	306	175
PC	180	$\pm 10\%$	95	.79	4.9	2.88	288	150
PC	220	$\pm 10\%$	95	.79	4.6	3.18	273	125
PC	270	$\pm 10\%$	100	.79	4.2	3.50	260	120
PC	330	$\pm 10\%$	100	.79	3.55	4.80	222	110
PC	390	$\pm 10\%$	100	.79	3.45	5.44	209	105
PC	470	$\pm 10\%$	100	.79	3.2	5.9	201	100
PC	560	$\pm 10\%$	95	.79	2.9	6.3	194	90
PC	680	$\pm 10\%$	100	.79	2.7	7.2	181	80
PC	820	$\pm 10\%$	90	.79	2.5	8	172	70
PC	1000	$\pm 10\%$	100	.79	2.35	12	141	65

*Incremental Current: The DC current required to cause a 5% reduction in the nominal inductance value.

PART MARKING

-- Manufacturer data printed

HOW TO ORDER

<u>PC</u>	<u>.10μH</u>	<u>$\pm 10\%$</u>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE