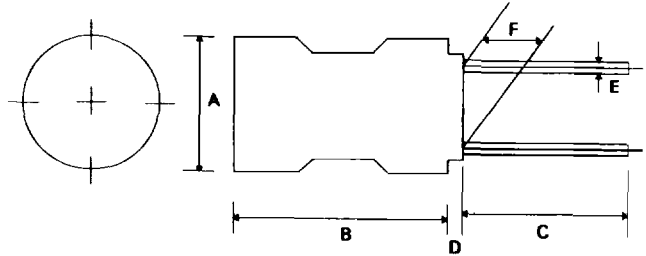


PEAKING COILS

PC SERIES

APPLICATIONS

Buzzers and Alarm Systems.
Systems requiring narrow band and high Q.



ORDERING INFORMATION

(Customer's Specifications are welcomed)

	PC	06	08	-	470	K	S
Type							
Outside diameter							
Length							
Inductance							
Inductance tolerance (J for $\pm 5\%$, K= $\pm 10\%$, m= $\pm 20\%$)							
UL or PVC							

A. FEATURES

1. Small size radial lead type.
2. Small mounting space required.
3. Excellent Q characteristics at high frequency.
4. High self resonant frequency (SRF) and low distributed capacitance.
5. Special lead wire construction prevents open circuit failures.

B. RATING

1. Temperature rise 20°C
2. Ambient temperature 80°C
3. Temperature range -20°C to $+100^{\circ}\text{C}$
4. Rated voltage 250V DC
5. Terminal tensile strength 0.5Kg min.
6. Terminal bending strength 0.5Kg min.
7. Moisture resistance $\Delta L/L \leq \pm 5\%$
 $\Delta Q/Q \leq \pm 5\%$

C. MATERIAL

1. CORE: Ferrite core
2. INSULATION COATING: Varnish with PVC or UL shrink tubing
3. WIRE: Polyurethane enameled wire
4. LEAD WIRE: Solder copper wire

Unit: mm

Dimension Form	ϕA (MAX.)	B (MAX.)	C (MIN.)	D (MAX.)	ϕE (± 0.05)	F (MAX.)
PC0608 TYPE	7	10	15	3	0.65	2.5 ± 1.5
PC0810 TYPE	9	12.5	15	3	0.65	5.0 ± 1.0
PC1012 TYPE	13	14	15	3	0.65	6 ± 1.0

ELECTRICAL CHARACTERISTICS

PC0608 INDUCTORS

PART NO.	INDUCTANCE @ 1 KHz (mH)	Q+ (MIN)	PEAKING FREQUENCY (KHz)	DC RESISTANCE (Ω) MAX	RATED DC CURRENT (mA)
PC0608-122K-S	1.2	70	252	3.5	120
PC0608-152K-S	1.5			4.5	100
PC0608-182K-S	1.8			5.0	
PC0608-222K-S	2.2			6.2	90
PC0608-272K-S	2.7			7.2	
PC0608-332K-S	3.3			10.5	60
PC0608-392K-S	3.9			11.7	
PC0608-472K-S	4.7			13.6	
PC0608-562K-S	5.6			16.6	50
PC0608-682K-S	6.8			19.6	
PC0608-822K-S	8.2			25.2	40
PC0608-103K-S	10		29.5		
PC0608-123K-S	12		33.8	30	
PC0608-153K-S	15		45.4		
PC0608-183K-S	18		50.4		
PC0608-223K-S	22		60.0		
PC0608-303K-S	30		91.5	20	
PC0608-333K-S	33		98.5		
PC0608-393K-S	39		140	15	
PC0608-473K-S	47		160		
PC0608-503K-S	50		170		
PC0608-563K-S	56		181		
PC0608-683K-S	68	50	282	10	
PC0608-823K-S	82		25.2		312
PC0608-104K-S	100	30			380
PC0608-124K-S	120				430
PC0608-154K-S	150				150

*Q values are measured at peaking frequency

ELECTRICAL CHARACTERISTICS

PC0810 INDUCTORS

PART NO.	INDUCTANCE @ 1 KHz (μ H)	Q* (MIN)	PEAKING FREQUENCY	SRF MIN (MHz)	DCR MAX (Ω)	RATED CURRENT (mA)
PC0810-102K-S	1000 $\pm$ 10%	65	0.25 MHz	1.4	6.0	450
PC0810-122K-S	1200 $\pm$ 10%	140	0.25 MHz	1.2	6.0	450
PC0810-152K-S	1500 $\pm$ 10%	130	0.25 MHz	1.1	7.0	400
PC0810-162K-S	1600 $\pm$ 10%	150	0.25 MHz	1.1	10	400
PC0810-182K-S	1800 $\pm$ 10%	150	0.25 MHz	1.1	10	400
PC0810-222K-S	2200 $\pm$ 10%	150	0.25 MHz	1.0	12	360
PC0810-272K-S	2700 $\pm$ 10%	140	0.25 MHz	0.9	14	360
PC0810-302K-S	3000 $\pm$ 10%	140	0.25 MHz	0.9	15	280
PC0810-332K-S	3300 $\pm$ 10%	140	0.25 MHz	0.86	16	280
PC0810-392K-S	3900 $\pm$ 10%	130	0.25 MHz	0.81	18	280
PC0810-472K-S	4700 $\pm$ 10%	120	0.25 MHz	0.77	20	260
PC0810-562K-S	5600 $\pm$ 10%	120	0.25 MHz	0.72	22	260
PC0810-682K-S	6800 $\pm$ 10%	110	0.25 MHz	0.54	29	260
PC0810-752K-S	7500 $\pm$ 10%	110	0.25 MHz	0.52	30	240
PC0810-822K-S	8200 $\pm$ 10%	100	0.25 MHz	0.50	30	240

PC1012 INDUCTORS

PART NO.	INDUCTANCE @ 1 KHz (mH)	Q* (MIN)	PEAKING FREQUENCY	SRF MIN (MHz)	DCR MAX (Ω)	RATED CURRENT (mA)
PC1012-103K-S	10 $\pm$ 10%	140	79 KHz	0.35	12	280
PC1012-123K-S	12 $\pm$ 10%	140	79 KHz	0.31	13	280
PC1012-153K-S	15 $\pm$ 10%	140	79 KHz	0.28	18	280
PC1012-183K-S	18 $\pm$ 10%	130	79 KHz	0.26	25	280
PC1012-223K-S	22 $\pm$ 10%	130	79 KHz	0.22	30	240
PC1012-273K-S	27 $\pm$ 10%	130	79 KHz	0.20	35	240
PC1012-333K-S	33 $\pm$ 10%	110	79 KHz	0.19	40	200
PC1012-393K-S	39 $\pm$ 10%	110	79 KHz	0.17	50	140
PC1012-473K-S	47 $\pm$ 10%	110	79 KHz	0.15	50	140
PC1012-563K-S	56 $\pm$ 10%	100	79 KHz	0.13	65	140
PC1012-683K-S	68 $\pm$ 10%	80	79 KHz	0.12	70	120
PC1012-823K-S	82 $\pm$ 10%	65	79 KHz	0.10	85	120
PC1012-104K-S	100 $\pm$ 10%	60	79 KHz	0.10	100	120

*Q values are measured at peaking frequency