

Ceramic Low Pass Filter

50Ω, DC to 1050 MHz

New!
LPCA-1120



BLUE CELL™

CASE STYLE: SM1L
PRICE: \$6.95 ea. QTY.: (10-49)
(Patent pending)

Features

- excellent rejection, 20 dB at 1.36 f_3 dB and 40 dB at 1.76 to 2.24 f_3 dB
- low height, 0.070" max.
- excellent temperature stability
- low cost

Applications

- power amplifiers/base stations
- low noise amplifiers
- wide band noise reduction
- image/harmonic rejection
- test equipment

Electrical Specifications ($T_{AMB} = -55^\circ\text{C}$ to 100°C)

MODEL NO.	PASSBAND (MHz) (loss < 1 dB)	f_{co} , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz)		VSWR (:1) Passband Typ.
			(loss > 20dB) Min.	(loss > 40dB) Min.	
LPCA-1120	DC-1050	1250	1700-2200	2200-2800	1.4

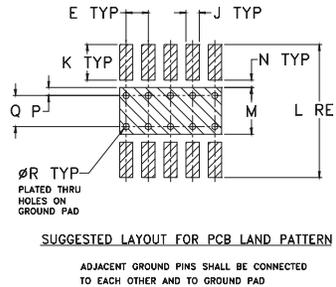
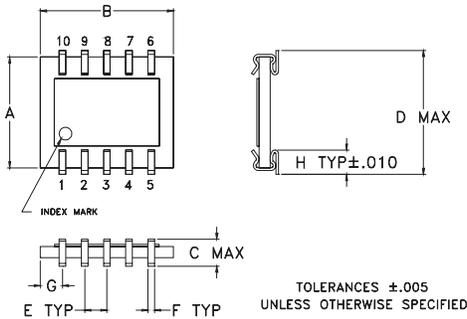
Pin Connections

IN	3
OUT	8
GROUND	1,2,4,5,6,7,8,10
DEMO BOARD	TB-181

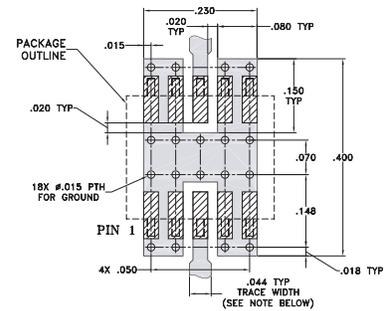
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
RF Power Input	10W max.

Outline Drawing



Suggested PCB Layout (PL-050)



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt.
.250	.300	.070	.320	.050	.015	.050	.075	.030	.095	.330	.100	.020	.015	.070	.014	grams
6.35	7.62	1.78	8.12	1.27	.38	1.27	1.91	.76	2.41	8.38	2.54	.51	.38	1.78	.36	0.3

Typical Performance Data at 25°C

Freq. (MHz)	Ins. Loss (dB)	VSWR (:1)
100.00	0.08	1.13
300.00	0.23	1.35
600.00	0.30	1.27
900.00	0.35	1.11
1200.00	2.62	3.56
1500.00	16.31	32.18
1800.00	28.32	48.26
2100.00	38.80	49.64
2400.00	59.60	57.91
2700.00	47.10	54.29
3000.00	41.87	56.04

