

Low Pass Filter

50Ω DC to 44 MHz

SXLP-44+

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power Input 0.5W Max.

Permanent damage may occur if any of these limits are exceeded.

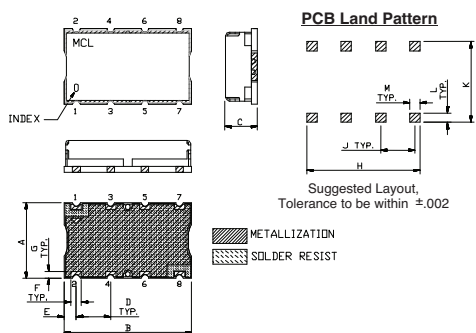
Pin Connections

INPUT 1

OUTPUT 8

GROUND 2, 3, 4, 5, 6, 7

Outline Drawing

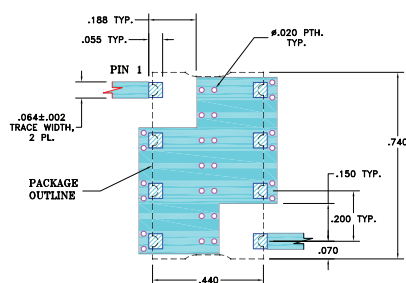


Outline Dimensions (inch mm)

A	B	C	D	E	F	
.44	.74	.27	.200	.07	.060	
11.18	18.80	6.86	5.08	1.78	1.52	
G	H	J	K	L	M	wt.
.040	.660	.200	.470	.055	.060	grams
1.02	16.76	5.08	11.94	1.40	1.52	3.0

Demo Board MCL P/N: TB-368

Suggested PCB Layout (PL-230)

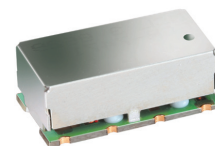


Features

- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139
PRICE: \$ 8.95 ea. QTY (1-9)

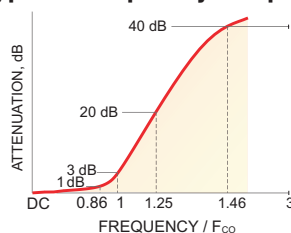
+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

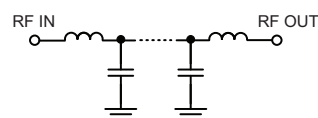
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 44	48.5	59 - 65.5 65.5 - 600	1.4 18

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
$\bar{x}$	σ			
0.5	0.01	0.00	0.5	13.62
3.0	0.02	0.00	2.0	13.58
6.0	0.04	0.00	10.0	13.81
11.0	0.08	0.00	11.0	13.91
28.0	0.16	0.00	12.0	14.00
39.0	0.33	0.01	13.0	14.11
44.0	0.50	0.01	14.0	14.18
46.8	1.19	0.07	15.0	14.30
48.5	2.84	0.14	18.0	14.76
49.0	3.61	0.15	20.0	15.22
52.0	10.59	0.22	30.0	18.41
56.0	21.73	0.28	35.0	21.42
59.0	30.40	0.37	37.0	23.16
65.5	58.16	2.32	38.0	24.08
80.0	62.80	0.88	40.0	26.76
100.0	66.21	0.27	42.0	30.55
200.0	68.63	0.84	43.5	34.75
300.0	66.02	1.31	44.0	36.49
400.0	58.70	0.68	46.0	45.02
600.0	55.94	0.48	48.5	51.73

