

Band Pass Filter

50Ω, 119 to 125 MHz

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

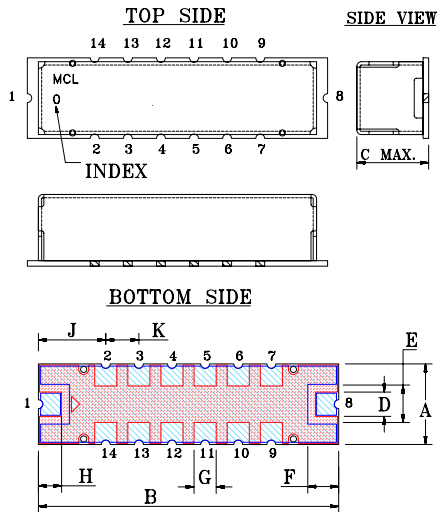
RF Power Input 0.5*W at 25°C

*Passband rating, derate linearly to 0.25W at 100°C ambient.

Pin Connections

RF IN	1
RF OUT	8
GROUND	2,3,4,5,6,7,9,10,11,12,13,14

Outline Drawing

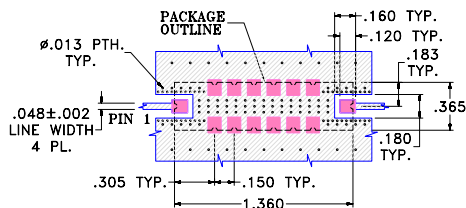


Outline Dimensions (inch)

A	B	C	D	E	F	G
.365	1.360	.35	.100	.180	.140	.100
9.27	34.54	8.89	2.54	4.57	3.58	2.54
H	J	K	wt.			
.100	.305	.150	grams			
2.54	7.75	3.81	4.0			

Demo Board MCL P/N: TB-363

Suggested PCB Layout(PL-227)



NOTE:

- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS. .025"±.002". COPPER: 1/2 OZ. EACH SIDE.
- FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- Good VSWR, 1.3:1 Typ @ Pass Band
- High Stop Band Rejection

Application

- Harmonic Rejection
- Transmitters/Receivers



CASE STYLE: HQ1157

PRICE: \$39.95 ea. QTY (1-9)

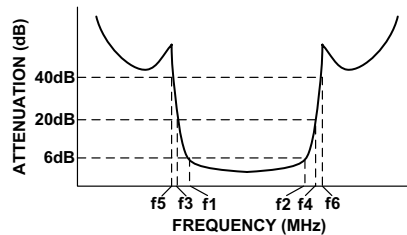
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. There has been no change to the model's material, form, fit, or function. See our web site for RoHS Compliance methodologies and qualifications.

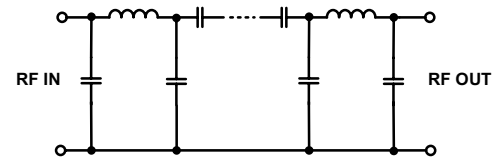
Band Pass Filter Electrical Specifications (T_{AMB} = 25°C)

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 6dB) f1-f2	STOPBANDS (MHz)		VSWR (:1)	
			Loss>20dB f3-f4	Loss>40dB f5-f6	Passband Max.	Stopband Typ.
BPF-A122+	122	119-125	111 & 132	105 & 137-500	1.6	20

Typical Frequency Response



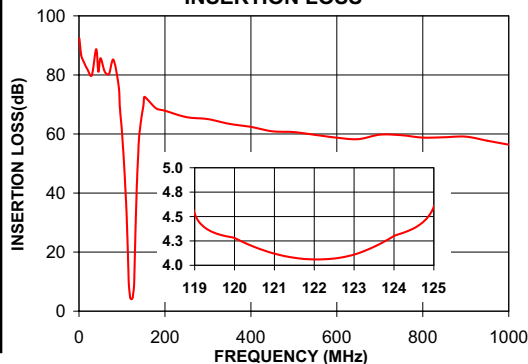
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	92.37	1737.18
85	81.88	124.09
100	60.85	69.49
105	49.55	48.26
108	42.04	35.46
111	31.87	21.46
114	18.58	8.72
116	9.21	2.94
119	4.53	1.24
122	4.06	1.16
125	4.60	1.23
127	6.21	1.19
129	13.29	2.69
132	30.67	11.61
134	39.84	19.11
137	50.38	29.96
141	59.83	44.55
500	60.64	69.49

INSERTION LOSS



VSWR

