Bandpass Filter

HT-RBP-75+

50Ω 60 to 90 MHz

Features
- good VSWR, 1.3:1 typ @ passband
- high rejection small size 0.35" X 0.35"
- shielded case
- aqueous washable

Applications
- military radar
- harmonic rejection
- transmitters/receivers

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.1W max.

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

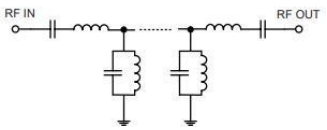
Bandpass Filter Electrical Specifications (T_{AMB}= 25℃)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBAND (MHz) (Loss>20dB)		(Loss>35dB)		VSWR Passband		VSWR Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
75	60-90	37	122	30	155-2000	1.3	1.7	18

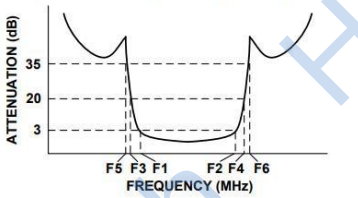
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	81.04	10825.01
28	50.32	99.37
37	29.43	29.34
43	14.77	8.67
46.5	7.36	2.96
50	3.52	1.36
60	2.02	1.25
70	1.81	1.13
75	1.82	1.17
80	1.89	1.09
90	2.50	1.27
95	4.21	2.21
100	8.84	5.56
105	14.58	10.93
122	29.82	30.01
173	51.75	83.61
500	94.19	250.42
2000	50.37	55.92

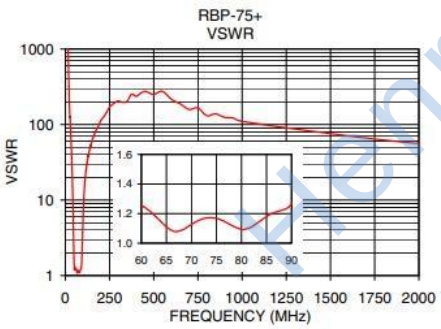
Functional Schematic



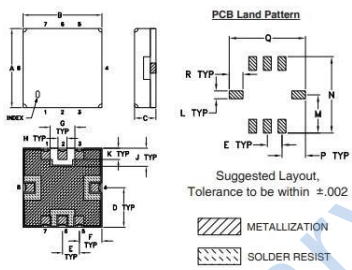
Typical Frequency Response



Pad Connections	
RF IN	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8

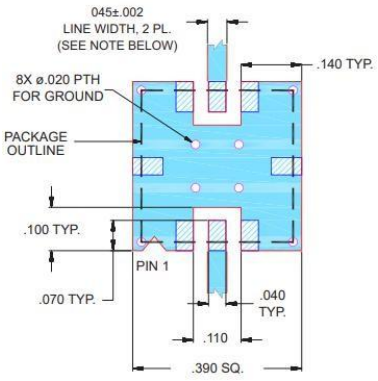


Outline Drawing



Outline Dimensions：Unit (mm)					
A	8.89	B	8.89	C	2.54
D	4.45	E	1.91	F	2.54
G	2.79	H	1.02	J	2.03
K	1.27	L	1.02	M	4.95
N	9.91	P	3.05	Q	9.91
R	1.78	wt	0.25		

Demo Board MCL P/N: TB-332
Suggested PCB Layout (PL-176)



NOTES:
1. 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.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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