HenryTech

Bandpass Filter

HT-RBP-220+

50Ω 212 to 228 MHz

Features
- VSWR, 1.4:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications
- harmonic rejection
- transmitters / receivers
- military radio

Maximum Ratings

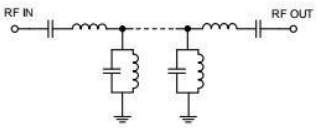
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5 W at 25°C

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.
220	212-228	150	290	100	320-1000	1.4	1.7	18

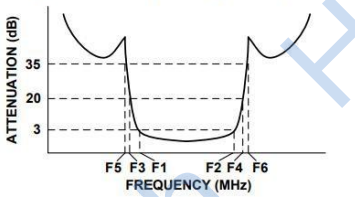
Functional Schematic



Typical Performance Data at 25° C

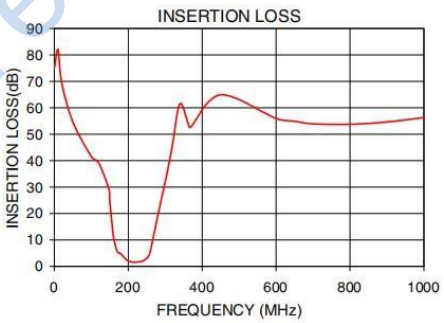
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	75.19	868.59
100	41.58	115.81
150	24.84	28.96
160	11.13	10.25
170	5.75	5.25
190	3.23	2.78
212	1.59	1.11
217	1.58	1.03
220	1.59	1.07
228	1.71	1.27
250	2.80	1.49
260	5.96	3.02
276	16.47	13.81
290	25.69	28.49
320	46.31	59.91
600	55.98	115.81
700	53.93	108.58
1000	56.30	78.97

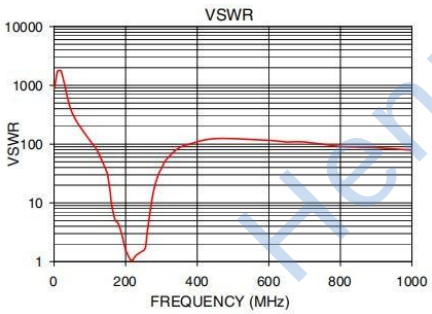
Typical Frequency Response



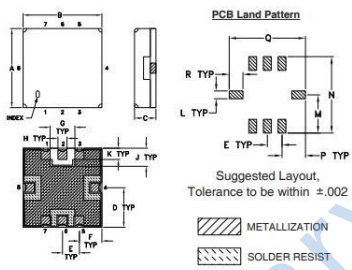
Pad Connections

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



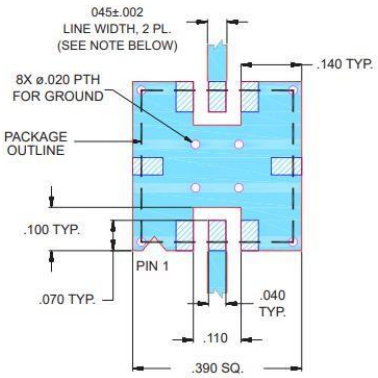


Outline Drawing



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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