HenryTech

High Pass Filter

HT-RHP-92+

50Ω 160 to 2500 MHz

Features

- low insertion loss, 0.3dB typ. @passband
- high rejection
- shielded case
- aqueous washable

Applications

- transmitters / receivers
- sub-harmonic rejection
- military communications

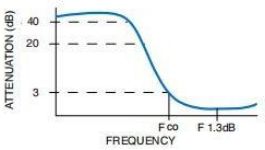
Electrical Specifications (T_{AMB}= 25° C)

STOP BAND (MHz) (Loss>40dB)	STOP BAND (MHz) (Loss>20dB)	FCO,(MHz) Nom. (Loss 3dB)	PASS BAND (MHz) (Loss<1dB)	VSWR (:1) Stopband Typ.	VSWR (:1) Passband Typ.
DC-50	DC-65	92	160-2500	18	1.2

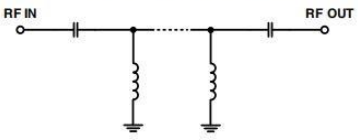
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	80.57	993.20
10	97.80	4713.84
40	65.89	188.27
50	49.43	107.76
60	35.85	56.04
65	29.68	41.13
70	23.74	29.22
80	12.40	11.70
85	7.41	5.94
90	3.80	2.85
92	2.88	2.20
95	1.98	1.59
160	0.47	1.14
250	0.28	1.02
500	0.20	1.07
1000	0.28	1.10
2000	0.42	1.22
2500	0.49	1.22

Typical Frequency Response



Functional Schematic



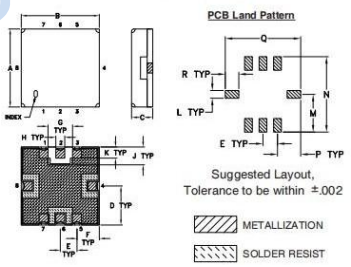
Pin Connections

INPUT	2
OUTPUT	6
GROUND	1, 3, 4, 5, 7, 8

Maximum Ratings

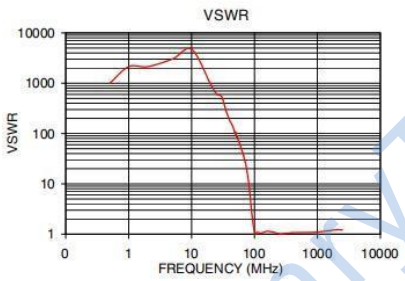
Operating Temperature -40°C to 85°C
Storage Temperature -55°C to 100°C
RF Power Input* 0.5W max. at 25°C
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing

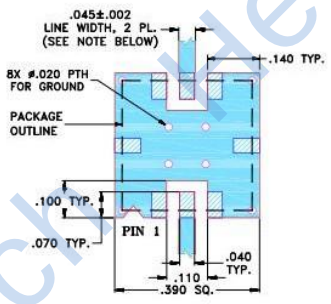


Outline Dimensions: Unit (mm)

A	8.89	B	8.89	C	2.54
D	4.45	E	1.93	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
WT		0.25		R	1.78



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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