

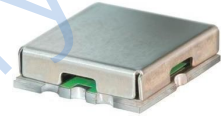
## Features

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

## Applications

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

## HT-RHP-110+



50Ω 185 to 2500 MHz

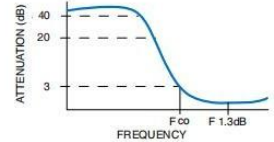
### Electrical Specifications (T<sub>AMB</sub>= 25° C)

STOP BAND (MHz)		FCO, (MHz) Nom.	PASS BAND (MHz)	VSWR (:1)	
(Loss > 40dB)		(Loss > 20dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC-60	DC-75	110	185-2500	18	1.2

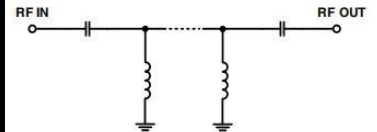
### Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	83.49	1457.50
25.0	91.10	757.04
60.0	48.89	108.79
75.0	32.71	51.99
90.0	18.12	21.94
100.0	9.19	8.47
105.0	5.56	4.56
110.0	3.08	2.51
115.0	1.82	1.59
125.0	1.06	1.06
140.0	0.77	1.07
185.0	0.48	1.13
300.0	0.28	1.03
500.0	0.22	1.07
1000.0	0.23	1.11
1500.0	0.33	1.19
2000.0	0.39	1.24
2500.0	0.42	1.25

### Typical Frequency Response



### Functional Schematic



### Pin Connections

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

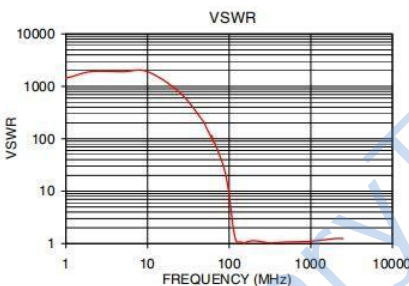
### Maximum Ratings

Operating Temperature -40°C to 85°C

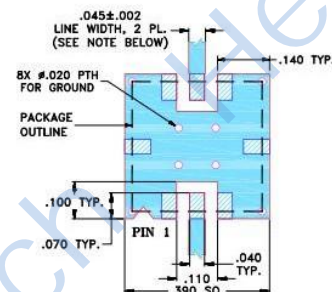
Storage Temperature -55°C to 100°C

RF Power Input\* 0.5W max. at 25°C

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



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

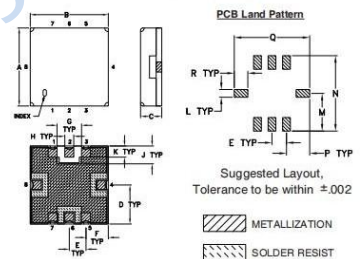


#### NOTES:

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

### 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