

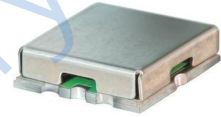
## Features

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

## Applications

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

## HT-RHP-65+



50Ω 130 to 2000 MHz

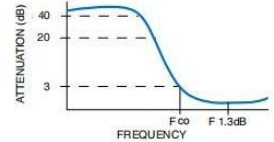
### Electrical Specifications (T<sub>AMB</sub>= 25° C)

STOP BAND (MHz)		FCO, (MHz) Nom.	PASS BAND (MHz)	VSWR (:1)	
(Loss > 40dB)		(Loss > 20dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC-37	DC-48	65	130-2000	18	1.2

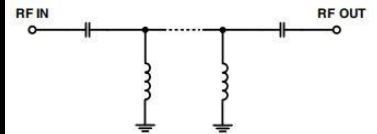
### Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	84.03	491.92
25	77.20	326.34
37	48.17	101.66
48	27.63	34.06
52	20.69	21.91
57	12.25	10.08
61	6.42	4.29
65	2.92	1.85
70	1.59	1.09
88	0.84	1.06
130	0.46	1.14
200	0.29	1.14
300	0.25	1.21
400	0.23	1.19
500	0.21	1.17
1000	0.28	1.13
1400	0.32	1.16
2000	0.43	1.21

### Typical Frequency Response



### Functional Schematic



### Pin Connections

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

### Maximum Ratings

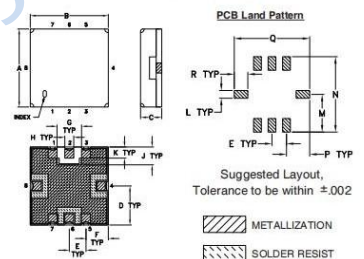
Operating Temperature -40°C to 85°C

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.

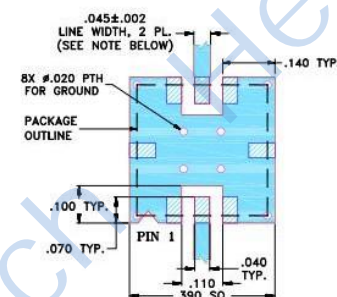
### Outline Drawing



### 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

