

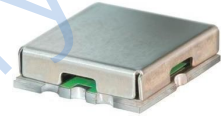
Features

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

Applications

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

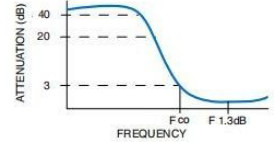
HT-RHP-305+



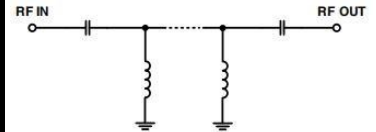
50Ω 420 to 3200 MHz

Electrical Specifications (T _{AMB} = 25° C)					
STOP BAND (MHz)		FCO,(MHz) Nom.	PASS BAND (MHz)	VSWR (:1)	
(Loss>40dB) (Loss>20dB)		(Loss 3dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC-160	DC-215	305	420-3200	18	1.2

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

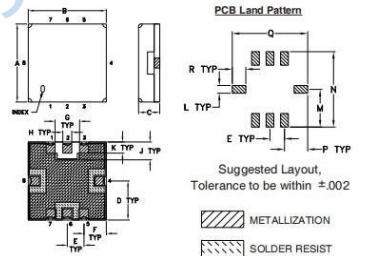
RF Power Input 0.5W at 25°C

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

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	83.65	3465.64
20	84.93	2026.91
50	86.29	1038.38
100	73.12	374.58
120	65.69	256.53
160	49.30	127.03
215	30.10	53.00
260	15.22	21.85
285	7.59	8.38
300	4.04	4.06
305	3.17	3.21
320	1.57	1.78
350	0.78	1.08
420	0.53	1.09
700	0.36	1.21
1000	0.32	1.14
2000	0.37	1.13
3200	0.50	1.20

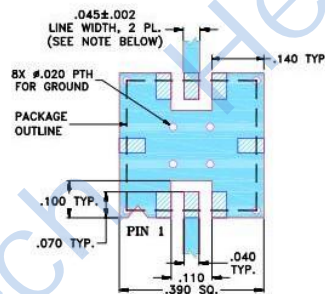
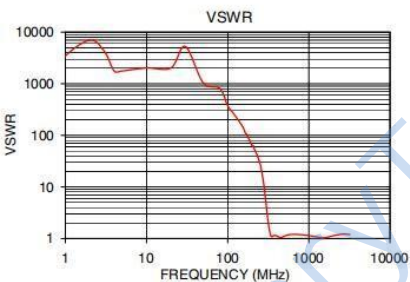
Outline Drawing



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