HenryTech

High Pass Filter

HT-RHP-700+

50Ω 700 to 3000 MHz

Features

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

Applications

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

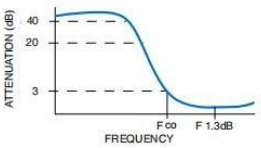
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC-500	20	30	-	dB
	VSWR	DC-F1	DC-500	-	20	-	:1
Pass Band	Insertion Loss	F2-F3	700-3000	-	0.6	2.0	dB
	VSWR	F2-F3	700-3000	-	1.5	1.8	:1

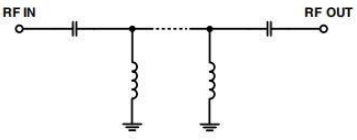
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	99.92	434.30
280	51.65	347.44
500	35.33	48.26
540	17.82	28.03
575	7.77	9.74
600	3.11	3.65
618	1.49	2.08
638	0.79	1.42
700	0.42	1.06
1000	0.20	1.12
1320	0.17	1.16
1670	0.16	1.19
1870	0.15	1.16
1990	0.14	1.12
2200	0.13	1.06
2380	0.15	1.07
2540	0.17	1.14
2760	0.23	1.26
2000	0.29	1.35
3000	0.33	1.41

Typical Frequency Response



Functional Schematic



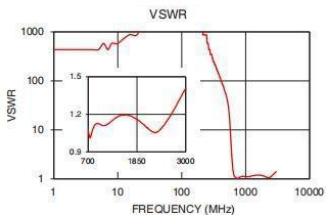
Pin Connections

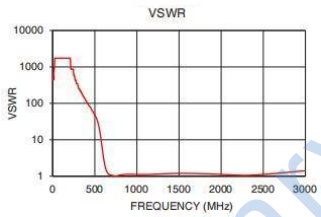
INPUT	2
OUTPUT	6
GROUND	1, 3, 4, 5, 7, 8

Maximum Ratings

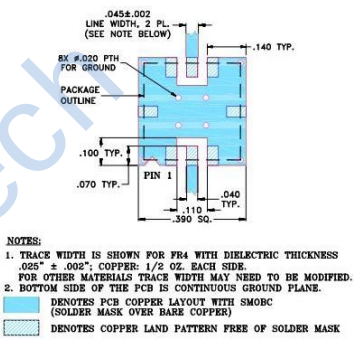
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

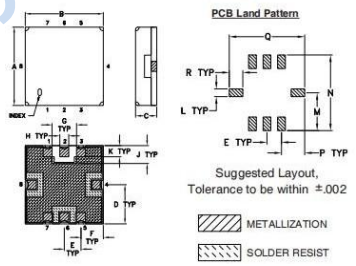




Demo Board MCL P/N: TB-332
Suggested PCB Layout (PL-176)



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

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