

# High Pass Filter

## RHP-225+

50Ω 360 to 3000 MHz

### 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.

### Pin Connections

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

### Features

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

### Applications

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



CASE STYLE: GP731  
PRICE: \$12.70 ea. QTY (10)

**+RoHS Compliant**

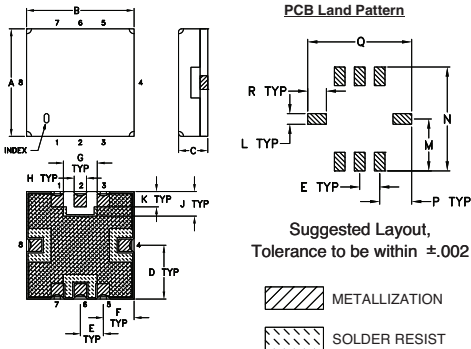
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



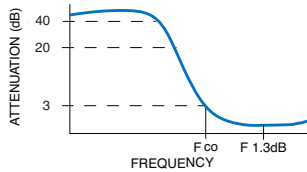
### High Pass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

STOPBAND (MHz)		f <sub>co</sub> , MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(Loss > 40dB)	(Loss > 20dB)	(Loss 3dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC - 125	DC - 165	225	360 - 3000	18	1.2

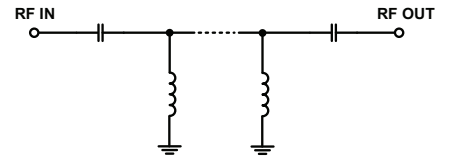
### Outline Drawing



### Typical Frequency Response



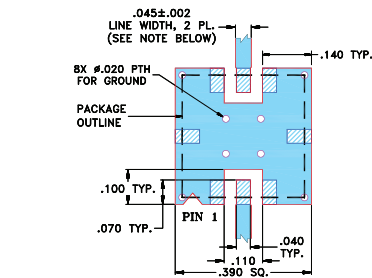
### Functional Schematic



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.79	1.02	2.03
K	L	M	N	P	Q	R	wt.	
.050	.040	.195	.390	.120	.390	.070	grams	
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25	

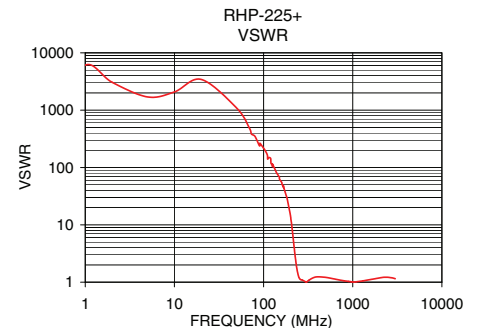
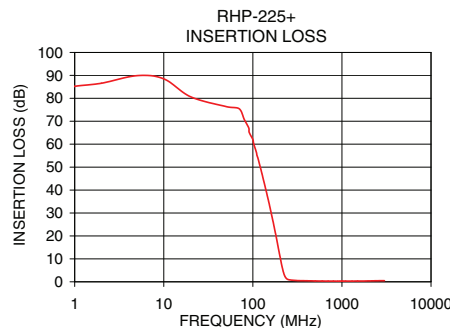
### Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)



- 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.
- Legend:  
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)  
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	85.21	6089.08
10.0	88.48	2080.62
20.0	80.68	3438.55
50.0	76.40	1086.16
100.0	62.05	216.13
120.0	50.57	144.10
125.0	47.99	116.31
150.0	35.22	68.35
165.0	27.93	48.25
170.0	25.58	42.86
200.0	11.77	14.74
225.0	3.14	3.04
250.0	0.96	1.20
360.0	0.49	1.19
500.0	0.36	1.21
1000.0	0.28	1.01
2000.0	0.40	1.18
3000.0	0.49	1.15



For detailed performance specs & shopping online see web site

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