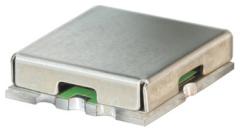
Metal Shield

High Pass Filter

RHP-147+

50Ω 250 to 3000 MHz



CASE STYLE: GP731
PRICE: $13.95 ea. QTY (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

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

Pin Connections

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

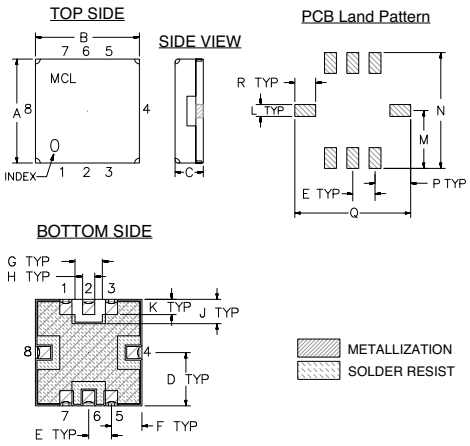
Features

- Low Insertion Loss, 0.5dB Typ @ Passband
- High Rejection
- Shielded case
- Aqueous washable

Applications

- Transmitters/Receivers
- Sub-Harmonic Rejection

Outline Drawing

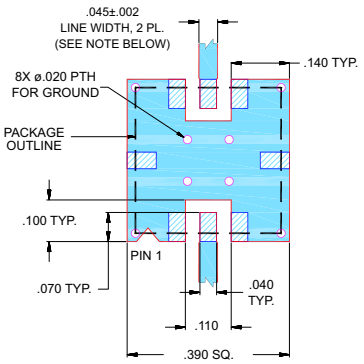


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.090	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.29	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.

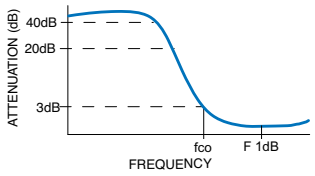
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

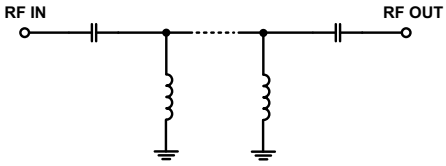
High Pass Filter Electrical Specifications (T_{AMB}= 25°C)

STOPBAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(Loss > 40dB)	(Loss > 20dB)	(Loss 3dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC - 80	DC - 105	147	250 - 3000	18	1.2

Typical Frequency Response



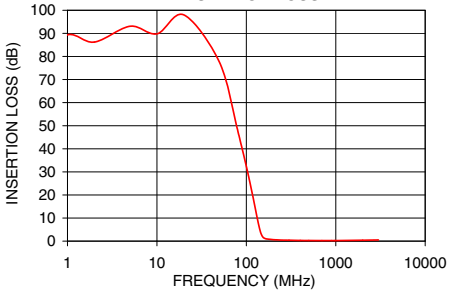
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	89.38	750.48
10.0	89.79	2784.52
50.0	77.52	334.16
80.0	47.98	99.04
105.0	28.76	42.62
120.0	18.18	23.01
132.5	9.87	9.96
140.0	5.65	4.92
147.0	2.98	2.56
153.0	1.77	1.64
180.0	0.82	1.17
250.0	0.46	1.15
500.0	0.28	1.13
700.0	0.24	1.07
1000.0	0.25	1.01
2000.0	0.39	1.27
2500.0	0.47	1.32
3000.0	0.51	1.28

RHP-147+
INSERTION LOSS



RHP-147+
VSWR