

High Pass Filter

RHP-139+

50Ω 225 to 3000 MHz

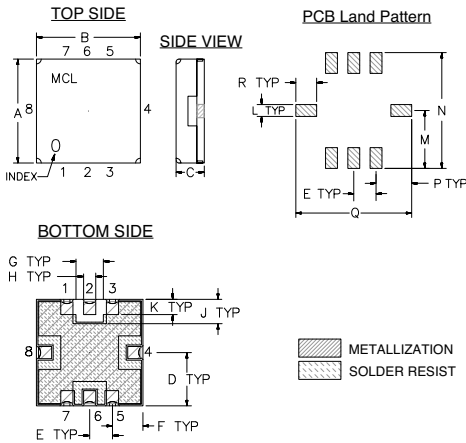
Maximum Ratings

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

Pin Connections

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

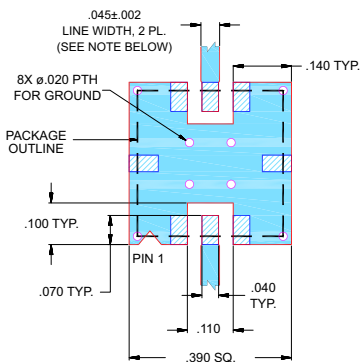
Outline Drawing



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.

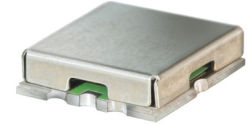
■ DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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

Applications

- Transmitters/Receivers
- Sub-Harmonic Rejection



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

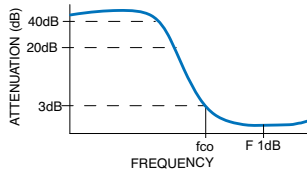
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

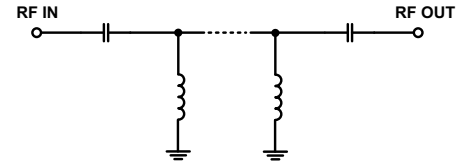
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)	f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)
(Loss > 40dB)	(Loss 3dB)	(Loss < 1dB)	Stopband Typ. Passband Typ.
DC - 75	139	225 - 3000	18 1.2

Typical Frequency Response

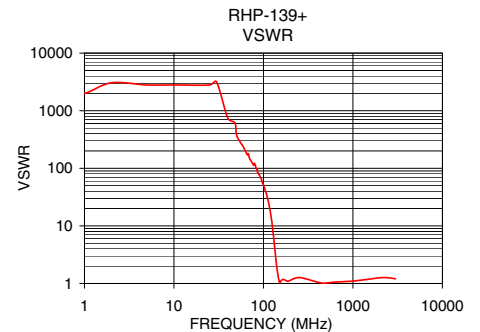
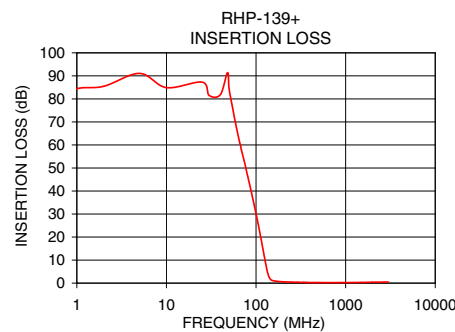


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	84.43	1997.13
10.0	84.90	2799.39
50.0	84.46	383.36
75.0	51.95	124.78
100.0	30.12	51.87
112.0	20.63	28.59
125.0	10.62	10.82
133.0	5.39	4.48
139.0	2.86	2.33
145.0	1.64	1.42
170.0	0.80	1.17
225.0	0.49	1.24
500.0	0.24	1.01
1000.0	0.24	1.10
1500.0	0.31	1.19
2000.0	0.39	1.26
2500.0	0.42	1.26
3000.0	0.47	1.21



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

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Page 1 of 1