High Pass Filter

RHP-180+

50Ω

300 to 3000 MHz

Maximum Ratings

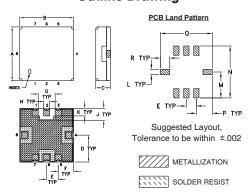
-40°C to 85°C
-55°C to 100°C
0.5W at 25°C

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

Pin Connections

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

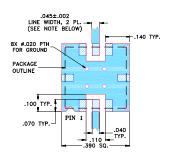
Outline Drawing



Outline Dimensions (inch)

.350	.350	.100	.175	.075	.100	G .110 2.79	.040	.080
.050	.040	.195	.390	.120	.390	R .070 1.78	g	ırams

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



- (SULES):
 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.
 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
- · military communications

CASE STYLE: GP731

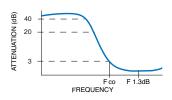
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



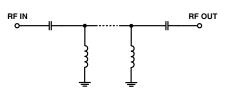
High Pass Filter Electrical Specifications (T_{AMB}= 25°C)

STOPBAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)	VS' (:	
(Loss > 40dB)	(Loss > 20dB)	(Loss 3dB)	(Loss < 1dB)	Stopband Typ.	Passband Typ.
DC - 100	DC - 135	180	300 - 3000	18	1.2

Typical Frequency Response

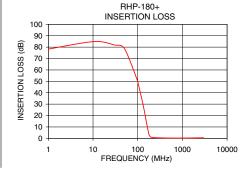


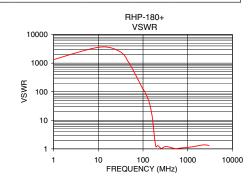
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	76.59	1100.71
10.0	84.80	3575.04
30.0	81.89	2557.85
50.0	78.94	937.93
98.5	50.86	126.88
100.0	49.70	124.82
103.0	47.72	117.88
122.0	35.47	69.19
135.0	27.44	46.38
146.0	20.76	30.22
180.0	2.90	2.49
216.0	0.88	1.28
300.0	0.47	1.18
500.0	0.28	1.03
1000.0	0.26	1.12
1500.0	0.34	1.24
2000.0	0.43	1.35
3000.0	0.50	1.31





- Notes
 A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuit's standard interms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp