Metal Shield Bandpass Filter

50Ω 120 to 210 MHz

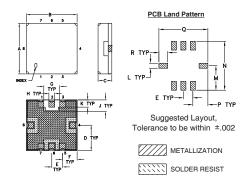
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W at 25ºC
Pormanant damaga may acour if any of	

Pin Connections

RF IN	2
RF OUT	6
GROUND	1,3,4,5,7,8

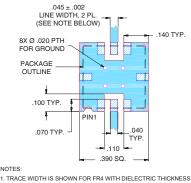
Outline Drawing



Outline Dimensions (inch)

А	В	С	D	Е	F	G	н	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.91	2.54	2.79	1.02	2.03
к	L	М	Ν	Р	Q	R		wt
.050	.040	.195	.390	.120	.390	.070	ç	grams
1.27	1.02	4.95	9.91	3.05	9.91	1.78		0.25
Note: Ple	ease	refer	to cas	se sty	le dra	awing	for a	letails

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



 LINAGE WIDTH IS SHOWN PRAY WITH DIELECTRIC THICKNESS LOS² 1. 002², COPPER: 112 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

- high rejection
- good VSWR,1.2:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications

- harmonic rejection
- transmitters / receivers
- navigation



Generic photo used for illustration purposes only CASE STYLE: GP731

+RoHS Compliant

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



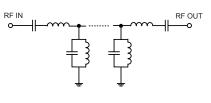
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ.	PASSBAND (MHz)	STOPB	ANDS (MHz)	VSWF	R (:1)
(MHz)	(Loss < 3dB) F1 - F2	Loss > 20dB F3 F4	Loss > 35dB F5 F6	Passband Max.	Stopband Typ.
165	120 - 210	85 280	70 340 - 2000	1.6	18

Typical Frequency Response

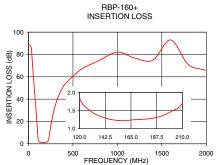
(GP) 35 20 55 F3 F1 F5 F3 F1 F2 F4 F6 FREQUENCY (MHz)

Functional Schematic

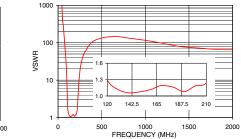


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
0.3	89.19	1737.18	
40	77.22	1737.18	
70	44.89	144.77	
85	29.73	51.10	
100	12.83	11.03	
105	7.19	4.62	
110	3.46	1.85	
120	1.85	1.29	
165	1.24	1.17	
210	1.70	1.24	
220	2.49	1.72	
230	5.47	4.08	
250	15.72	17.05	
280	27.86	39.49	
340	43.18	75.53	
1000	82.13	115.81	
1400	74.97	78.97	
2000	65.68	66.82	







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 applicable established test performance criteria and measurement instructions.
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Mini-Circuits

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