Bandpass Filter

5150 to 5990 MHz 50Ω

BFCG-5600+



Generic photo used for illustration purposes only

CASE STYLE: GE0805C-3

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

Features

- · Low loss<2.0 dB typ.
- Rejection up to 16 GHz
- Small size (0.079"x0.049"x0.037")
- Temperature stable
- · Hermetically sealed

Applications

- · Harmonic Rejection
- Transmitters / Receivers
- WiFi / WLAN

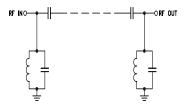
Electrical Specifications at 25°C

Paran	neter	F#	Frequency (MHz)	Min.	Тур.	Тур. Мах.	
	Center Frequency	_			5600		dB
Pass Band	Insertion Loss	F1 - F2	5150 - 5990	_	1.2	2.2	dB
	VSWR	F1 - F2	5150 - 5990	_	1.6	_	:1
Stop Band, Lower	Insertion Loss	DC - F3	DC - 4200	_	25	_	dB
Stop Ballu, Lower	VSWR	DC - F3	DC - 4200	_	30	_	:1
Stop Band, Upper	Insertion Loss	F4 - F5	9310 - 15750	_	20	_	dB
Stop Bariu, Opper	VSWR	F4 - F5	9310 - 15750	_	40	_	:1

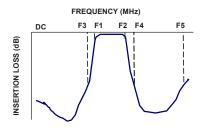
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature ¹	-55°C to 100°C
RF Power Input ²	0.5W at 25°C

- 1. 12 months max.
- 2. Passband rating, derate linearly to 0.125W at 85°C ambient Permanent damage may occur if any of these limits are

Functional Schematic

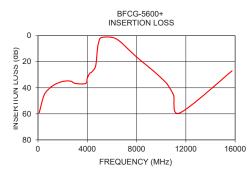


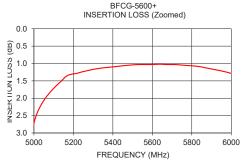
Typical Frequency Response

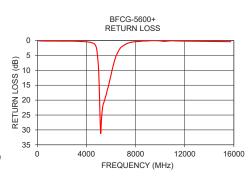


Typical Performance Data at 25°C

	/-			
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
100	59.09	174.29		
500	45.49	110.80		
1000	39.81	95.13		
2510	34.76	86.40		
3020	36.65	78.27		
4200	28.90	32.67		
4840	9.06	5.90		
5150	1.44	1.06		
5990	1.27	1.70		
6470	3.13	3.83		
8030	16.59	46.23		
9310	26.63	386.49		
10300	35.24	61.58		
11500	59.35	109.64		
15750	27.00	45.89		







- 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.

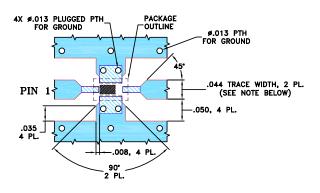
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

Pad Connections

INPUT	1_
OUTPUT	3
GROUND	2,4

Product Marking: N/A

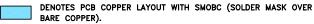
Evaluation Board MCL P/N: TB-703+ Suggested PCB Layout (PL-397)



NOTES:

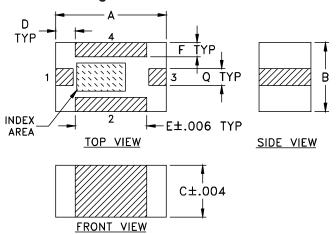
- 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.

 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Outline Drawing



Outline Dimensions (inch)

wt	Q	F	E	D	С	В	Α
grams	.012	.010	.051	.014	.037	.049	.079
020	0.30	0.25	1.30	0.36	0.94	1 24	2.01

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