50Q 950 to 2200 MHz

# **BFCG-162W+**



Generic photo used for illustration purposes only

CASE STYLE: GE0805C-3

+RoHS Compliant

Тур.

1575

1.8

2.0

25

20

Max.

3.0

Unit

dB

dB

:1

dΒ

dΒ

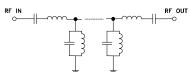
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### **Features**

- Extremely wide passband, 950-2200 MHz
- Small size 0805(2.0 x 1.25 mm)
- Temperature stable
- LTCC construction

### **Applications**

- Wireless communication
- · Harmonic Rejection
- Transmitters / receivers





**Parameter** 

Center Frequency

Insertion Loss

Insertion Loss

Insertion Loss

**VSWR** 

1. Measured on Mini-Circuits Characterization Test Board TB-703+.

ports, blocking capacitors are required at the corresponding RF port.

3. 12 months max

Pass Band

Stop Band, Lower

Stop Band, Upper

4. Passband rating, derate linearly to 0.25W at 100°C ambient Permanent damage may occur if any of these limits are exceeded

### Typical Performance Data at 25°C

Electrical Specifications<sup>1,2</sup> at 25°C

F1 - F2

F1 - F2

DC - F3

F4 - F5

2. This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output

Frequency (MHz)

950 - 2200

950 - 2200

DC - 770

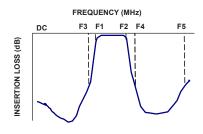
3000 - 5000

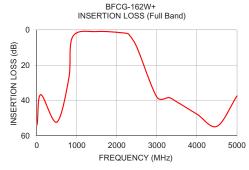
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	53.73	168.77
100	36.66	233.22
500	52.27	29.38
800	27.55	4.05
900	3.72	1.20
1500	0.91	1.20
2200	1.77	1.37
2300	2.55	1.64
2500	9.79	6.26
3000	38.08	42.51
3300	38.31	60.19
3500	40.81	68.65
4000	47.71	72.79
4500	54.61	66.32
5000	37.41	30.84

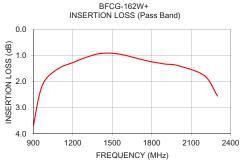


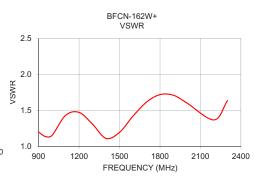
RF IN	~ <del>-</del>		RF OUT ——○
	÷	÷	

## **Typical Frequency Response**









- 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.

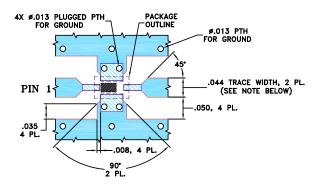
  C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive 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**

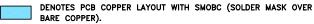
Evaluation Board MCL P/N: TB-703+ Suggested PCB Layout (PL-397)



### NOTES:

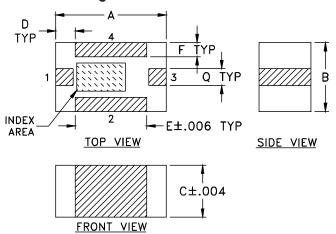
- 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.

  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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