50_O 950 to 2200 MHz

BFCG-162W+



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

Тур.

1575

1.8

2.0

25

20

Max.

3.0

Unit

dB

dB

:1

dΒ

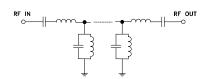
dΒ

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



Functional Schematic



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^{1,2} 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

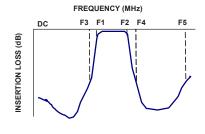
950 - 2200

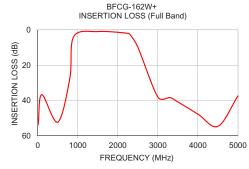
DC - 770

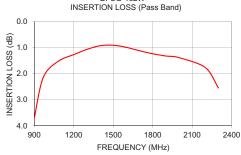
3000 - 5000

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

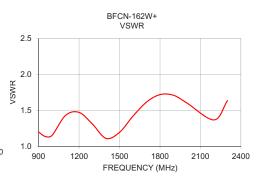








BFCG-162W+



- 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.

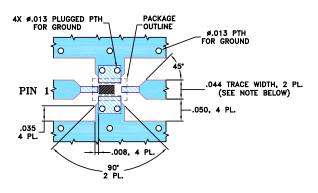
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive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

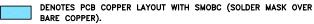
Evaluation Board MCL P/N: TB-703+ Suggested PCB Layout (PL-397)



NOTES:

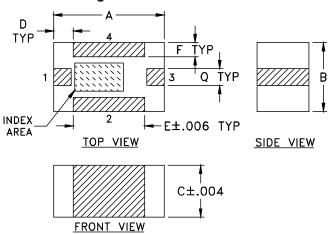
- 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.

 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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