Ceramic **Bandpass Filter**

50Ω 2600 to 2800 MHz

Maximum Ratings

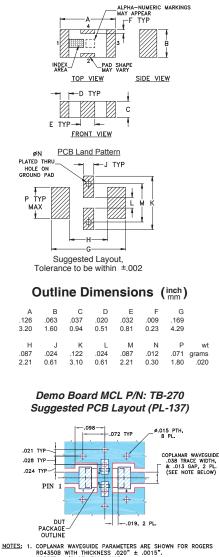
maximum matingo				
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	1.5W at 25°C			
*Passband rating, derate linearly to 0.25W at 100°C ambient				

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



wt

COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS ROA350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 02. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP 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

Notes

Features

- · Good VSWR, 1.6:1 typ @ passband
- · Small size
- · Temperature stable
- LTCC construction

Applications

- · Harmonic Rejection
- Transmitters / Receivers
- WiMAX

BFCN-2700+



CASE STYLE: FV1206 PRICE: \$3.95 ea. QTY (20)

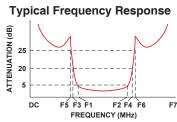
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications^{1,2} at 25°C

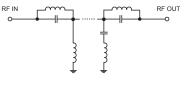
Para	meter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	-	_	2700	-	MHz
Pass Band	Insertion Loss	F1-F2	2600-2800	-	-	5	dB
	VSWR	F1-F2	2600-2800	-	1.6	2.8	:1
Stop Band, Lower	Insertion Loss	DC-F5	DC-1400	_	25	-	dB
	Insention Loss	DC-F3	DC-1500	20	_	_	dB
	VSWR	DC-F3	DC-1500	_	20	_	:1
Stop Band, Upper	Incortion Loop	F4-F6	4150-4200	20	_	-	dB
	Insertion Loss F6	F6-F7	4200-5600	-	25	-	dB
	VSWR	F4-F7	4150-5600	-	20	-	:1

1. Measured on Mini-Circuits Characterization Test Board TB-270.

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

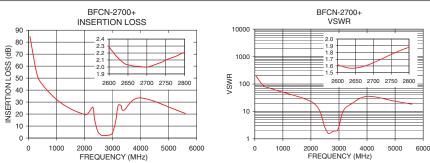


Functional Schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
50	84.75	193.02
500	44.49	72.39
1400	25.76	38.61
1500	24.40	36.20
2380	13.09	6.84
2450	6.90	3.82
2500	4.35	2.58
2600	2.30	1.63
2650	2.03	1.57
2700	2.00	1.65
2750	2.10	1.77
2800	2.21	1.88
3000	4.57	2.85
3070	9.56	5.83
3150	18.90	10.25
4150	29.69	38.61
4200	29.22	36.97
5600	20.47	18.30



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. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are bubject to Mini-Circuit's and conditions (collective); "Standard Terms' 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-Circuit's vebsite at www.minicircuits.com/MCLStore/terms.jsp A. B. C.

Mini-Circuits

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