Ceramic **Bandpass Filter**

2700 to 3100 MHz 50Ω

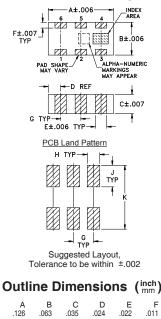
Maximum Ratings

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

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

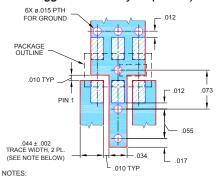
| FILLCOINECTIONS | | | | |
|-----------------|---------|--|--|--|
| RF IN | 1 | | | |
| RF OUT | 3 | | | |
| GROUND | 2.4.5.6 | | | |

Outline Drawing



.011 3.20 1.60 0.89 0.61 0.56 0.28 G н Κ wt. .039 .024 .042 .123 arams 0.99 0.61 1 07 3 12 020

Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020° ± .0015°. COPPER: 1/2 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

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-Circuits standard Terms 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 meedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

- Small size
- Temperature stable
- LTCC construction

Applications

- · Harmonic rejection
- Transmitters / receivers



CASE STYLE: FV1206-1

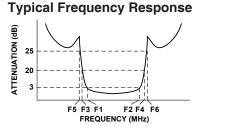
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Bandpass Filter Electrical Specifications^{1,2} (T_{AMB} = 25°C)

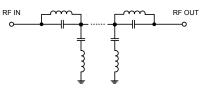
| CENTER FREQ. | PASSBAND (MHz) | STOPBANDS (MHz) | | VSWR (:1) | | R (:1) | | |
|-----------------|-------------------|-----------------|--------|-----------|-------------|--------|------|----------|
| (MHz) | (Loss < 3dB) | Loss > | > 20dB | Loss | 25dB Typ | Pass | band | Stopband |
| Fc | F1 - F2 | F3 | F4 | F5 | F6 | Тур. | Max. | Тур. |
| 2900 | 2700 - 3100 | 1850 | 4200 | 1800 | 4900 - 7000 | 2.3 | 3.6 | 20 |

1. Measured on Mini-Circuits Characterization Test Board TB-285.

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.

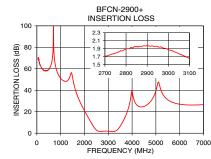


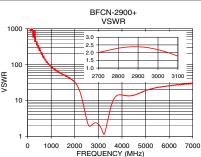
Functional Schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) 1737.18 | | |
|--------------------|------------------------|-------------------------|--|--|
| 50 | 68.92 | | | |
| 500 | 59.22 | 289.53 | | |
| 1000 | 51.09 | 82.73 | | |
| 1800 | 29.79 | 42.38 | | |
| 1850 | 27.43 | 39.49 | | |
| 2200 | 12.97 | 18.70 | | |
| 2380 | 6.22 | 6.91 | | |
| 2480 | 3.38 | 3.42 | | |
| 2700 | 1.71 | 2.00 | | |
| 2900 | 1.98 | 2.38 | | |
| 3100 | 1.65 | 1.77 | | |
| 3400 | 3.55 | 2.87 | | |
| 3500 | 6.47 | 5.51 | | |
| 3650 | 12.39 | 10.69 | | |
| 4200 | 26.22 | 13.49 | | |
| 4900 | 33.76 | 17.57 | | |
| 5200 | 41.01 20.45 | | | |
| 5500 | 31.08 23.18 | | | |
| 7000 | 26.56 | 30.49 | | |





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