Ceramic **High Pass Filter**

50Ω

1220 to 4600 MHz

Maximum Ratings

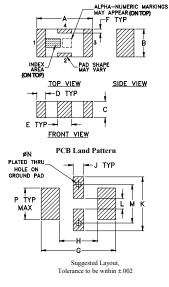
| Operating Temperature | -55°C to 100°C | | | | |
|--|-----------------|--|--|--|--|
| Storage Temperature | -55°C to 100°C | | | | |
| RF Power Input* | 7W max. at 25°C | | | | |
| * Passband rating, derate linearly to 3W at 100°C ambient. | | | | | |

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

Pin Connections

| RF IN | 1 |
|--------|-----|
| RF OUT | 3 |
| GROUND | 2,4 |

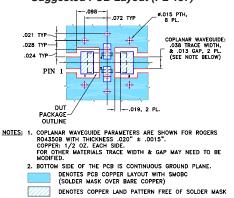
Outline Drawing



Outline Dimensions (inch) D В C .037 Е 126 .063 .020 .032 .009 .169

| 3.20 | 1.60 | 0.94 | 0.51 | 0.81 | 0.23 | 4.29 | |
|------|------|------|------|------|------|------|-------|
| н | J | к | L | М | Ν | Р | wt |
| .087 | .024 | .122 | .024 | .087 | .012 | .071 | grams |
| 2.21 | 0.61 | 3.10 | 0.61 | 2.21 | 0.30 | 1.80 | .020 |

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Features

- low cost
- small size 7 sections
- temperature stable hermetically sealed
- LTCC construction
- excellent power handling, 7W

Applications

- sub-harmonic rejection
- transmitters/receivers
- · lab use





CASE STYLE: FV1206

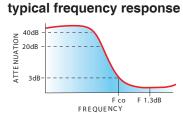
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



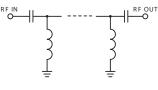
Electrical Specifications^(1,2) at 25°C

| STOP BAND (MHz) Min. | | fco, MHz Nom. | PASSBAND (MHz) | | VSWR (:1) Typ. | | POWER INPUT (W) | NO. OF SECTIONS |
|----------------------------|----------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|-----------------------|--------------------|
| (loss > 40 dB) | (loss > 20 dB) | · , | (loss < 1.3 dB) Max. | (loss < 2 dB) Typ. | Stopband | Frequency (MHz) 1.5:1 | | |
| 750 | 910 | 1180 | 1380-4000 | 1220-4600 | 20:1 | 1300-3200 | 7 | 7 |

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, Mini-Circuits' "D" suffix version of this model will provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits Characterization Test Board TB-270.



electrical schematic



Typical Performance Data at 25°C Insertion Loss VSWR Frequency (MHz) (dB) (:1) 1737.18 1 00 104 60 100.00 1737.18 76.44 750.00 63.39 56.04 910.00 30.29 32.79 1050.00 13.74 12.35 1130.00 6.09 4.53 1180.00 2.35 3.15 1220.00 2.01 1.65 1300.00 1.24 1.39 1380.00 0.98 1.39 3200.00 0.44 1.33 4000.00 0.93 2.01 4600.00 1.62 2.73 7000.00 4.86 6.63

VSWR



VSWR 1000 100 10 1000 3000 4000 5000 7000 0 2000 6000 FREQUENCY (MHz)

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 Nlin-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Nlini-Circuit 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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