Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 120 MHz

Maximum Ratings

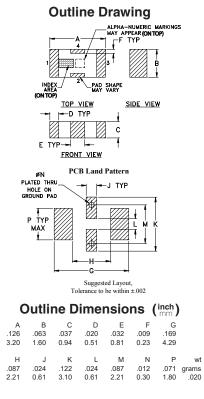
| Operating Temperature | -55°C to 100°C | | | |
|--|-------------------|--|--|--|
| Storage Temperature | -55°C to 100°C | | | |
| RF Power Input* | 8.5W max. at 25°C | | | |
| * Passband rating, derate linearly to 3.5W at 100°C ambient. | | | | |

Permanent damage may occur if any of these limits are exceeded

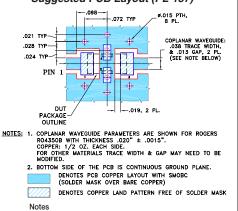
Pin Connections

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

Product Marking: BS



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



Features

- excellent power handling, 8.5W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection VHF/UHF transmitters/receivers





Generic photo used for illustration purposes only CASE STYLE: FV1206

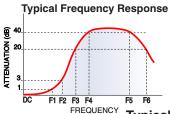
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



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

| · · · · · · · · · · · · · · · · · · · | | | | | | | |
|---------------------------------------|----------------|-------|-----------------|------|------|------|------|
| Pa | rameter | F# | Frequency (MHz) | Min. | Тур. | Max. | Unit |
| | Insertion Loss | DC-F1 | DC-120 | _ | _ | 1.0 | dB |
| Pass Band | Freq. Cut-Off | F2 | 195 | — | 3.0 | _ | dB |
| | VSWR | DC-F1 | DC-120 | | 1.2 | _ | :1 |
| Stop Band | | F3 | 280 | 20 | _ | — | dB |
| | Rejection Loss | F4-F5 | 300-1850 | — | 40 | _ | dB |
| | | F6 | 4750 | _ | 20 | _ | dB |
| | VSWR | F3-F6 | 280-4750 | _ | 20 | _ | :1 |

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. (2) Measured on Mini-Circuits Characterization Test Board TB-270.

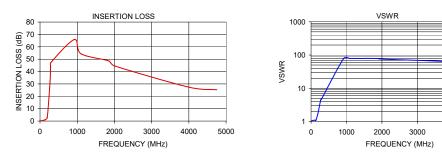




Electrical Schematic

Typical Performance Data at 25°C

| Frequency | Insertion Loss | VSWR | | | |
|-----------|----------------|-------|--|--|--|
| (MHz) | (dB) | (:1) | | | |
| 1.00 | 0.13 | 1.04 | | | |
| 100.00 | 0.68 | 1.10 | | | |
| 120.00 | 0.83 | 1.08 | | | |
| 135.00 | 0.96 | 1.08 | | | |
| 195.00 | 2.89 | 1.73 | | | |
| 270.00 | 32.22 | 4.45 | | | |
| 280.00 | 41.07 | 4.55 | | | |
| 285.00 | 44.02 | 4.61 | | | |
| 300.00 | 47.56 | 4.86 | | | |
| 920.00 | 65.79 | 78.97 | | | |
| 1100.00 | 54.38 | 78.97 | | | |
| 1850.00 | 48.59 | 78.97 | | | |
| 2000.00 | 44.58 | 75.53 | | | |
| 4000.00 | 27.36 | 62.05 | | | |
| 4750.00 | 25.27 | 48.26 | | | |



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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

REV. K M158161 LFCN-120+ ED-11690 RVN/AD/CP/AM 160920 Page 1 of 1

5000

4000

Mini-Circuits

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