

Ceramic Low Pass Filter

查询LFTC-5400供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

NEW!

LFTC-5400

DC to 5400 MHz

Maximum Ratings

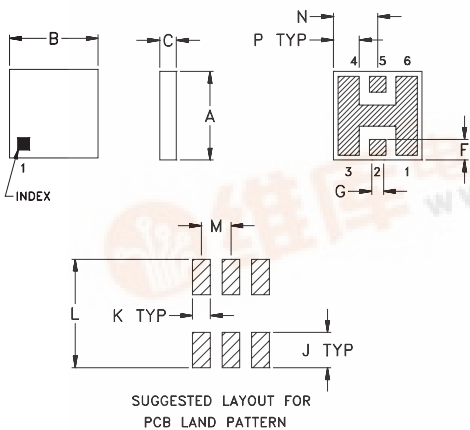
| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 125°C |

Pin Connections

| | |
|--------|---------|
| RF IN | 2** |
| RF OUT | 5** |
| GROUND | 1,3,4,6 |

** RF IN & RF OUT can be interchanged

Outline Drawing

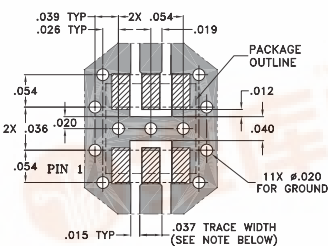


TOLERANCE UNLESS OTHERWISE STATED
2 PLACES DECIMAL: ±.01
3 PLACES DECIMAL: ±.005

Outline Dimensions (inch/mm)

| | | | | | | | |
|------|------|------|------|------|------|------|-------|
| A | B | C | D | E | F | G | |
| .150 | .150 | .028 | — | — | .035 | .028 | |
| 3.81 | 3.81 | 0.71 | — | — | 0.89 | 0.71 | |
| H | J | K | L | M | N | P | |
| — | .060 | .030 | .184 | .050 | .075 | .044 | |
| — | 1.52 | 0.76 | 4.67 | 1.27 | 1.91 | 1.12 | |
| | | | | | | wt. | |
| | | | | | | | grams |
| | | | | | | | 0.15 |

Demo Board MCL P/N: TB-233
Suggested PCB Layout (PL-112)



NOTE: TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

⊠ DENOTES PCB COPPER LAYOUT
⊡ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- miniature size, 0.15"X0.15"X.028"
- low profile, .028" height
- high power handling, 19W

Applications

- harmonic rejection
- internal rejection
- receivers & transmitters



BLUE CELL™

CASE STYLE: FR933

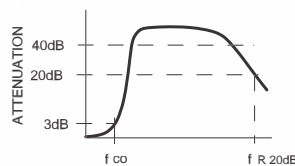
PRICE: \$3.75 ea. QTY (10-49)

Low Pass Filter Electrical Specifications (T_{AMB}=25°C)

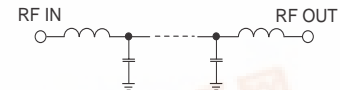
| MODEL NO. | PASSBAND (MHz) (loss < 1 dB) Typ. | f _{co} , MHz Nom. (loss 3 dB) Typ. | STOP BAND (MHz) | | VSWR (:1) Passband Typ. | POWER INPUT* (W) | MARKING | NO. OF SECTIONS |
|-----------|---|--|-----------------|----------------|-------------------------------|------------------|---------|-----------------|
| | | | (> 20 dB) | (loss > 40 dB) | | | | |
| LFTC-5400 | DC-5400 | 6410 | 9000-11000 | — | 12000 | 19 | LF5 | 7 |

* Derate linearly to 8W at 100°C ambient

typical frequency response



schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100.00 | 0.07 | 1.02 |
| 1000.00 | 0.21 | 1.02 |
| 5400.00 | 0.88 | 1.18 |
| 6410.00 | 2.69 | 2.76 |
| 7000.00 | 8.27 | 8.99 |
| 8200.00 | 24.11 | 21.73 |
| 11000.00 | 30.45 | 20.45 |
| 12000.00 | 29.61 | 22.87 |
| 13000.00 | 30.32 | 19.76 |
| 15000.00 | 19.81 | 11.03 |

