

Low Pass Filter

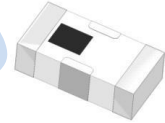
Features

- excellent power handling
- small size
- 7 sections
- temperature stable
- LTCC construction, and has good moisture resistance, corrosion resistance, high reliability.

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- Base Station of Mobile Communication, lab use.

HT-LFCN-160+



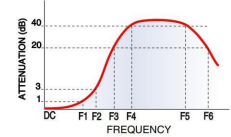
50Ω DC to 160 MHz

Maximum Ratings

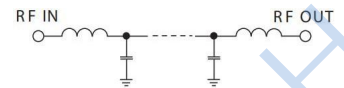
| | |
|-----------------------|-----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 8W max. at 25°C |

* Passband rating, derate linearly to 3W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Typical Frequency Response



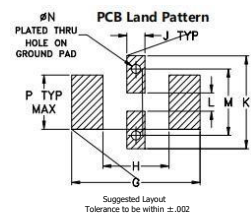
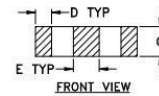
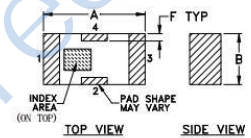
Electrical Schematic



Pin Connections

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

Outline Drawing



Outline Dimensions: Unit (mm)

| | | | | | |
|---|------|---|------|----|-------|
| A | 3.20 | B | 1.60 | C | 0.95 |
| D | 0.51 | E | 0.81 | F | 0.23 |
| G | 4.29 | H | 2.21 | J | 0.61 |
| K | 3.10 | L | 0.61 | M | 2.21 |
| N | 0.30 | P | 1.80 | wt | 0.02g |

Electrical Specifications at 25°C

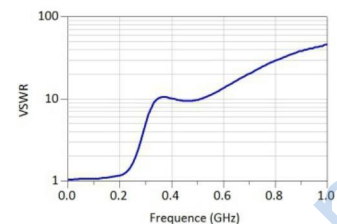
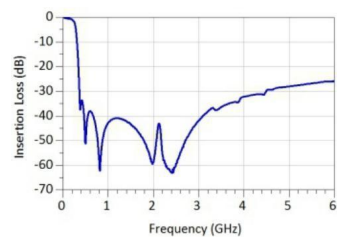
| Parameter | F# | Frequency(MHz) | Min. | Typ. | Max. | Unit | |
|-----------|----------------|----------------|-----------|------|------|------|----|
| Pass Band | Insertion Loss | DC-F1 | DC-160 | - | - | 1.0 | dB |
| | Freq.Cut-Off | F2 | 270 | - | 3.0 | - | dB |
| | VSWR | DC-F1 | DC-160 | - | 1.2 | - | :1 |
| Stop Band | Rejection Loss | F3-F4 | 330-480 | 20 | - | - | dB |
| | | F4-F5 | 480-2700 | - | 40 | - | dB |
| | | F5-F6 | 2700-6100 | - | 20 | - | dB |
| | | F3-F6 | 330-6100 | - | 17 | - | :1 |

Measured on Fenghua Characterization Test Board T-39.

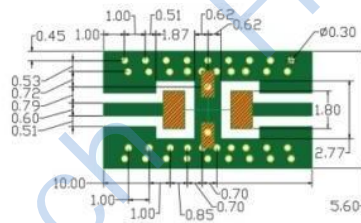
Typical Performance Data

(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 40 | 0.25 | 1.06 |
| 100 | 0.43 | 1.06 |
| 160 | 0.68 | 1.11 |
| 210 | 1.06 | 1.20 |
| 230 | 1.37 | 1.13 |
| 325 | 14.52 | 8.36 |
| 370 | 34.48 | 10.62 |
| 525 | 43.48 | 10.42 |
| 950 | 44.53 | 42.37 |
| 1700 | 47.20 | 61.79 |
| 2350 | 61.70 | 65.80 |
| 4500 | 29.67 | 71.94 |
| 6400 | 24.99 | 56.91 |
| 7500 | 22.12 | 18.86 |
| 9000 | 21.74 | 3.99 |



Demo Board MCL P/N: T-39 Suggested PCB Layout (PL-137)



- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015", COPPER: 1/2 OZ. 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

单击下面可查看定价，库存，交付和生命周期等信息

[>>HenryTech\(恒利泰\)](#)