

LTCC 高通滤波器 (High Pass Filter)

HT-HFCW-133+

Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

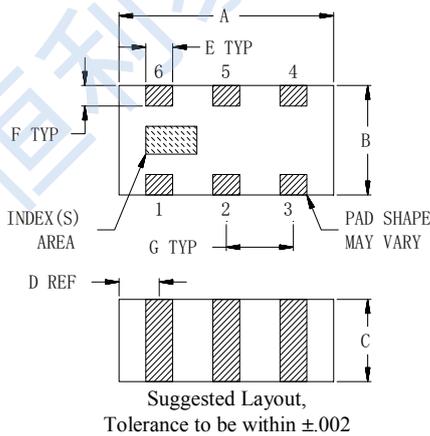
Applications

- Test and measurements.
- Telecommunications and broadband wireless system.
- Satcom modems.

Pad Connections

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

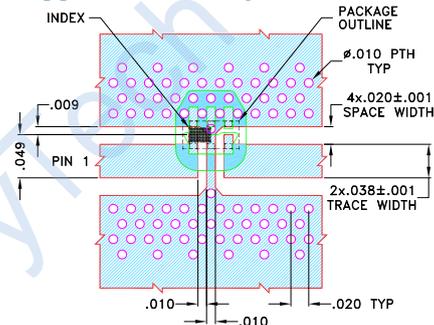
Outline Drawing



Outline Dimensions : inch mm

| A | B | C | D | E | F | G | Wt. |
|------|------|------|------|------|------|------|-------|
| .063 | .032 | .024 | .012 | .008 | .006 | .020 | grams |
| 1.60 | 0.80 | 0.60 | 0.30 | 0.20 | 0.15 | 0.50 | .005 |

Suggested PCB Layout



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R03003) WITH DIELECTRIC THICKNESS .020 \pm .001 COPPER: 1/2 Oz. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER PATTERN WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK

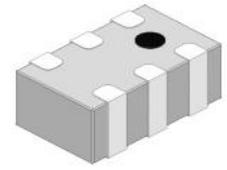
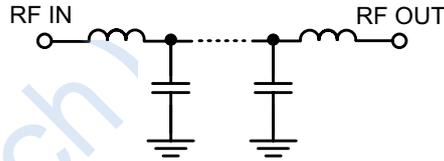
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Functional Schematic



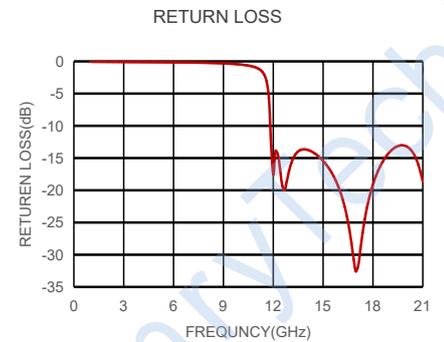
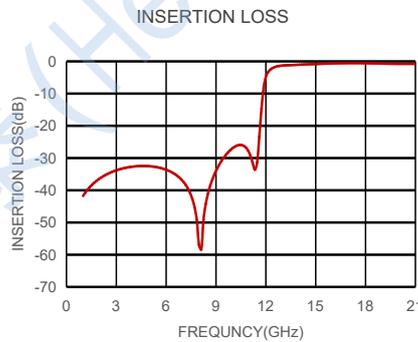
50 Ω
14200 to 20500MHz

Electrical Specifications(1) at 25°C

| Parameter | | Frequency (MHz) | Min. | Typ. | Max. | Units |
|-----------|----------------|-----------------|------|------|------|-------|
| Stop Band | Rejection Loss | DC - 8500 | 28 | 34 | — | dB |
| | | 8500 - 10200 | 24 | 38 | — | dB |
| | Freq. Cut-Off | 13300 | — | 3 | — | dB |
| Passband | Insertion Loss | 14200 - 16500 | — | 2.5 | — | dB |
| | | 16500 - 19500 | — | 1.1 | 1.9 | dB |
| | | 19500 - 20500 | — | 1.2 | — | dB |
| | Return Loss | 14200 - 16500 | — | 8 | — | dB |
| | | 16500 - 19500 | — | 10 | — | dB |
| | | 19500 - 20500 | — | 8 | — | dB |

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C



Maximum Ratings

| | |
|-----------------------|-----------------|
| Operating Temperature | -55°C to +125°C |
| Storage Temperature | -55°C to +125°C |
| RF Power Input* | 2.5W at 25°C |

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