

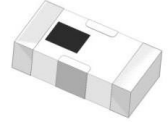
Features

- excellent power handling
- Small size
- 7 sections
- temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

Applications

- sub-harmonic rejection
- transmitters/receivers
- base station of mobile communication and lab use

HT-HFCN-2100+



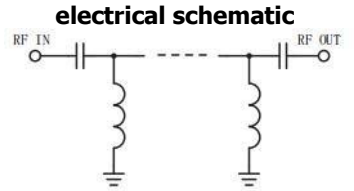
50 Ω 2200 to 6000 MHz

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

| STOP BAND (MHz) | | FCO(MHz) Nom. | PASS BAND (MHz) | | VSWR (:1) | | POWER INPUT (W) | NO. OF SECTIONS |
|------------------|------------------|-----------------|-------------------|-----------------|-------------------------------------|-----------|-----------------|-----------------|
| (Loss>27dB) Min. | (Loss>20dB) Min. | (Loss 3dB) Typ. | (Loss<1.3dB) Max. | (Loss<2dB) Typ. | Stopband Frequency (MHz) 1.5:1 Typ. | | | |
| 1050 | 1530 | 2100 | 2500-5000 | 2200-6000 | 20-1 | 2400-5200 | 7 | 7 |

Typical Performance Data at 25° C

| Frequency (MHz) | Return Loss (dB) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|------------------|---------------------|-----------|
| 1 | 0.01 | 75.67 | 1249.77 |
| 100 | 0.10 | 49.62 | 179.83 |
| 1050 | 0.32 | 29.20 | 54.45 |
| 1530 | 0.52 | 28.37 | 33.51 |
| 1700 | 1.33 | 16.17 | 13.08 |
| 1900 | 4.87 | 4.26 | 3.66 |
| 2000 | 4.66 | 3.74 | 3.82 |
| 2100 | 6.20 | 2.73 | 2.92 |
| 2200 | 8.79 | 1.89 | 2.14 |
| 2400 | 15.74 | 1.10 | 1.39 |
| 2500 | 19.40 | 0.94 | 1.24 |
| 5000 | 11.95 | 1.24 | 1.68 |
| 5200 | 10.69 | 1.56 | 1.83 |
| 6000 | 11.93 | 2.45 | 1.68 |
| 7000 | 21.92 | 1.17 | 1.17 |
| 9000 | 7.44 | 2.20 | 2.48 |



Pin Connections

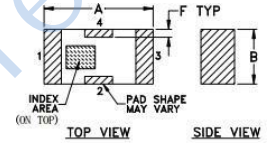
| | |
|--------|-----|
| RF IN | 1 |
| RF OUT | 3 |
| GROUND | 2,4 |

Maximum Ratings

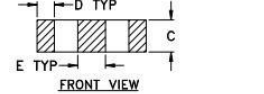
| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 7W at 25°C |

* Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

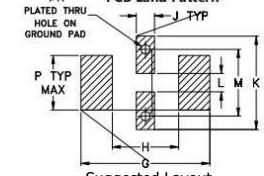
Outline Drawing



TOP VIEW SIDE VIEW



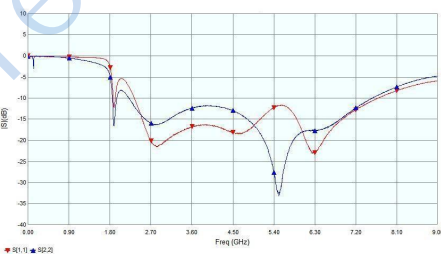
FRONT VIEW



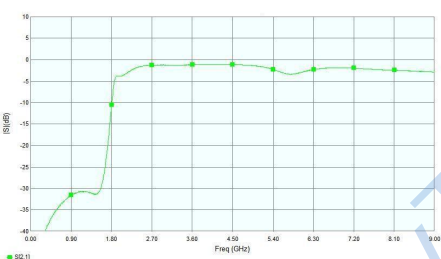
Suggested Layout

Tolerance to be within ±0.02

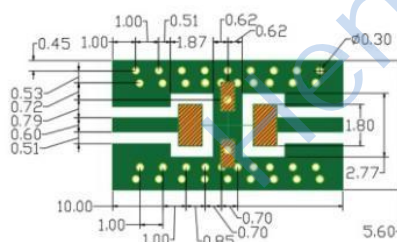
HT-HFCN-2100+. s2p



HT-HFCN-2100+. s2p



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



- ES: 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

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 | 1.8 | wt | 0.02g |

单击下面可查看定价，库存，交付和生命周期等信息

[>>HenryTech\(恒利泰\)](#)