

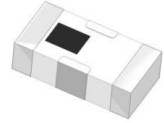
## Features

- 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-440+



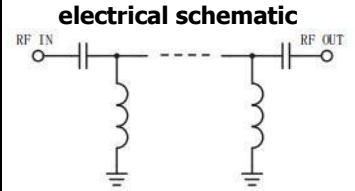
50 Ω 500 to 2500 MHz

### Electrical Specifications (T<sub>AMB</sub>= 25° C)

| STOP BAND (MHz)    |                    | FCO (MHz)       | PASS BAND (MHz)     |                   | VSWR (-1) |                       | POWER INPUT (W) | NO. OF SECTIONS |
|--------------------|--------------------|-----------------|---------------------|-------------------|-----------|-----------------------|-----------------|-----------------|
| Min                | Max                | Nom.            | (Loss < 1.3dB) Max. | (Loss < 2dB) Typ. | Stopband  | Frequency (MHz) 1.6:1 |                 |                 |
| (Loss > 40dB) Min. | (Loss > 20dB) Min. | (Loss 3dB) Typ. |                     |                   |           |                       |                 |                 |
| 230                | 350                | 440             | 600-1700            | 500-2500          | 20:1      | 500-1700              | 7               | 7               |

### Typical Performance Data at 25° C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (-1) |
|-----------------|---------------------|-----------|
| 30.53           | 67.79               | 97.09     |
| 100.00          | 61.35               | 70.51     |
| 230.00          | 60.66               | 36.14     |
| 350.00          | 30.68               | 13.62     |
| 385.00          | 15.85               | 6.35      |
| 410.00          | 7.98                | 2.68      |
| 440.00          | 3.65                | 1.21      |
| 450.00          | 3.06                | 1.13      |
| 500.00          | 1.84                | 1.05      |
| 510.00          | 1.71                | 1.07      |
| 600.00          | 1.08                | 1.16      |
| 800.00          | 0.68                | 1.31      |
| 1000.00         | 0.71                | 1.62      |
| 1500.00         | 0.40                | 1.29      |
| 1700.00         | 0.32                | 1.08      |
| 2500.00         | 0.70                | 1.83      |
| 4000.00         | 1.98                | 3.53      |



### Pin Connections

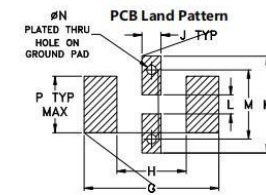
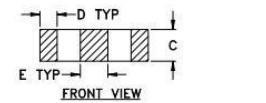
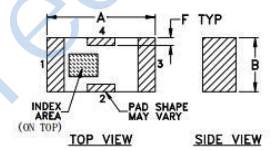
|        |     |
|--------|-----|
| RF IN  | 1   |
| RF OUT | 3   |
| GROUND | 2,4 |

### 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

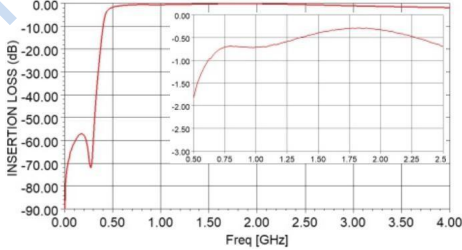


Suggested Layout  
Tolerance to be within ±0.02

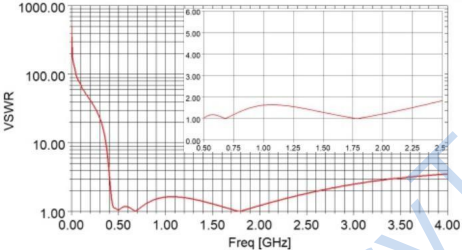
### Outline Dimensions: Unit (mm)

|   |      |   |      |    |       |
|---|------|---|------|----|-------|
| 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 |

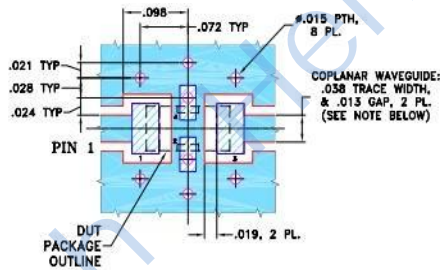
### INSERTION LOSS



### VSWR



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



- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .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\(恒利泰\)](#)