The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Stripline Mounting Non-reflective Terminations

HT Series



Features

1.High Performance

These super wide bandwidth/ultra high matching non-reflective termination use Hirose Electric original high frequency matching technology.

2.Equipped with Tabs

Termination are equipped with tabs to permit direct mounting to flat circuits.

3.Housing functions as a radiator to permit small size and high-density mounting.

Product Specifications

| RatingsRated frequency range (Note) Characteristic impedance Maximum Input Power (Note)DC to 50 c 0.25 to | NS Operating temperature range -10° to $+65^{\circ}$ Operating relative humidity 95% Max |
|---|---|
|---|---|

NOTE: The frequency range and the maximum input power will differ depending on the products.

HT-025B-1, HT-025B-2, HT-10-2, HT-20-3, and HT-50-1(40)

| Item | Standard | Conditions |
|---------------------|--|--|
| 1.Vibration | No electrical discontinuity of 1 μ s or more | Frequency of 10 to 2,000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s ² for 2 hours in each of 3 directions |
| 2.Shock | No damage, cracks, or parts dislocation | Acceleration of 490 m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis |
| 3.Temperature cycle | No damage, cracks, or parts dislocation | Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Time: 30 → 15 max. → 30 →15 max. (Minutes) 5 cycles |

•The test method conforms to MIL-STD-202.

Materials

HT-025B-1, HT-025B-2, and HT-05-3

| Part | Material | Finish |
|----------|------------|----------------|
| Tabs | Copper | Solder plating |
| Resistor | Metal film | |

HT-10-2, HT-20-3, and HT-50-1(40)

| Part | Material | Finish |
|----------|------------|----------------|
| Plate | Copper | Nickel plating |
| Tabs | Copper | Silver plating |
| Resistor | Metal film | |



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Ordering Information



| Series Name: HT Series | 3 Suffix |
|------------------------|----------------------|
| 2 Power | (40): RoHS compliant |
| (Example)0.25:0.25W | |
| 1:1W | |

■Specifications

| | Part Number | Frequnency Range (GHz) | V.S.W.R. (MAX) | Impedance (Ohms) | Power (W) | Heat Sink Temperature at Maximum Load (°C Max) | Heat Resistance (°C/ W) | Weight (g) | RoHS |
|-------------|---------------|----------------------------------|------------------------------|---------------------|--------------|---|-------------------------------|---------------|------|
| | HT-025B-1 | DC-10 | 1.30 | 50 | 0.25 | +65 | 50 | 0.1 | |
| | HT-025B-2 | DC-10 | 1.30 | 50 | 0.25 | +65 | 50 | 0.1 | 1 |
| | HT-05-3(Note) | DC-1 | 1.20 | 50 | 0.5 | +65 | 150 | 0.3 | |
| | HT-10-2 | DC-6 | 1.20 | 50 | 10 | +65 | 9 | 0.3 | YES |
| ⚠ | HT-20-3 | DC-4 4-8 8-12.4 12.4-15 | 1.15 1.25 1.45 1.55 | 50 | 20 | +65 | 3.8 | 0.6 | TES |
| \triangle | HT-50-1(40) | DC-5 | 1.25 | 50 | 50 | +65 | 1.6 | 1.5 | |

▲ CAUTION: Beryllia is used in this product. Please follow associated laws when disposing.

Note. HT-05-03(06): 1,000 pieces / reel

Typical Data

HT-10-2



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0.65

External Dimensions



HT-025B-1



HT-025B-2



HT-05-3





PCB Mounting Pattern



HT-10-2 HT-20-3

| Part Number | A | В |
|-------------|------|------|
| HT-10-2 | 1.65 | 1.7 |
| HT-20-3 | 2 | 2.05 |

PCB Mounting Pattern



HT-50-1(40)



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Mounting Method



- HT-05-3 Solder Pattern Substrate Housing
- HT-10-2,HT-20-3,HT-50-1

- ●Do not leave a space between the terminator and the microstrip board.
- Make the terminator tab height from the housing and the thickness of the microstrip board the same amount.
- ●Note: The HT-025B-1 type is attached with high temperature solder (having a melting point of 280°C). The soldering temperature to the microstrip board must be less than this.

- Mounting is performed by soldering over the microstrip line pattern.
- ●Manual Soldering: 350°C max. for 3 sec. max.
- •The resoldering of an item that has already been soldered once and then removed is not effective since solder cracks will develop at the electrode portion.
- •Do not leave a space between the terminator and the microstrip board.
- •Do not leave a space between the the microstrip board.
- •Note: The HT-10-2, HT-20-3, and HT-50-1(40) tabs are attached with high temperature solder (having a melting point of 280°C). The soldering temperature to the microstrip board must be less than this.

Note: Although the high frequency characteristics will deteriorate somewhat, please attach with some slack in the tabs in order to raise the thermal reliability.

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Terminations for the Division Part of a Wilkinson Divider (100 ohms Type)

HT Series



■Product Specifications

Features

1.High Performance

These wide bandwidth/ultra high matching nonreflective termination use Hirose Electric original high frequency matching technology.

2.Equipped with Tabs

Termination are equipped with tabs to permit direct mounting to Wilkinson type flat circuits.

3. High Power and Small Size

Beryllia is used for the material of the resistance element to enable the termination to be of small size and used with high power.

| Ratings | Rated frequency range | DC to 8.0 GHz | Heat sink temperature | +65℃Max. |
|---------|--------------------------|---------------|------------------------------------|------------|
| | Characteristic impedance | 100 ohms | at maximum output | 10℃to +65℃ |
| | Maximum Input Power | 20W | Operating temperature range | 95% Max. |
| | Resistance value | 100±2 ohms | Operating relative humidity Weight | 0.4 g |

| Item | Standard | Conditions | |
|---------------------|--|---|--|
| 1.Vibration | No electrical discontinuity of 1 μ s or more | Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s ² for 2 hours in each of 3 directions | |
| 2.Shock | No damage, cracks, or parts dislocation | Acceleration of 490 m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis | |
| 3.Temperature cycle | No damage, cracks, or parts dislocation | Temperature: -55℃ → +15℃ to +35℃ → +85℃ → +15℃ to +35℃ Time: 30 → 15 max. → 30 →15 max. (Minutes) 5 cycles | |

Material

| Part | Material | Finish |
|----------|------------|----------------|
| Plate | Copper | Nickel plating |
| Tabs | Copper | Silver plating |
| Resistor | Metal film | |

External Dimensions



 $m ilde{\Delta}$ CAUTION: Beryllia is used in this product. Please follow associated laws when disposing.

