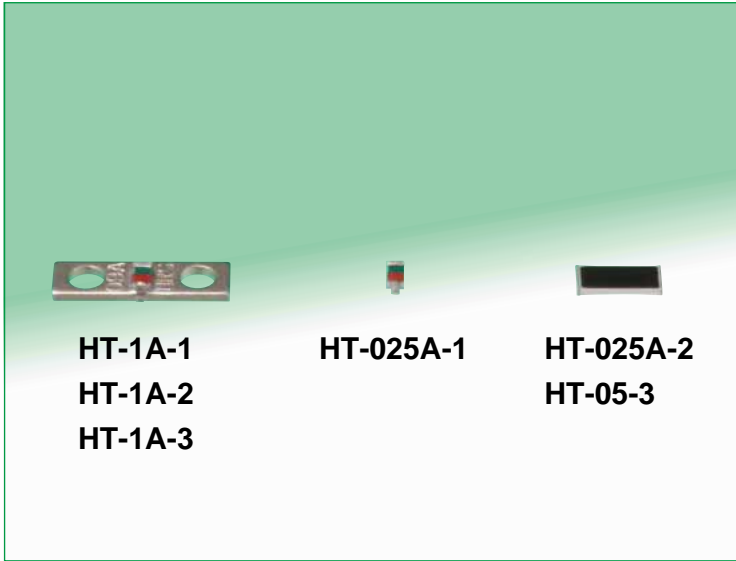


Stripline Mounting Non-reflective Terminators

HT Series



■ Features

1. High Performance

Wide bandwidth and high degree of matching through the use of our high frequency matching technology.

2. High-density Mounting

The housing functions as a radiator to dissipate heat generated from the resistor. This permits small size and high-density mounting.

3. Can be used to substitute for HT-025-1, HT-025-2, HT-1-1, HT-1-2, HT-1-3, and HT-05-2

Mounting pattern for this series is the same as on existing HT Series.

■ Product Specifications

Ratings	Frequency range	DC to 8GHz	Operating temperature Operating humidity	-10°C to +65°C 95% max.
	Characteristic impedance	50Ω		
	Maximum input power	0.25 to 1W		

Note: The frequency range and the maximum input power will differ, depending on the termination used.

Item	Characteristic requirement	Conditions
1. Vibration	No electrical discontinuity of 1 μ s or more. No damage, cracks, or parts dislocation.	Frequency of 10 to 2000 Hz, overall amplitude of 1.5mm, acceleration of 98m/s ² , 2 hours in each of the 3 directions.
2. Shock		Acceleration of 490m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis.
3. Temperature cycle		Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Duration: 30 → 2 to 3 → 30 → 2 to 3 (Minutes) 5 cycles

The test method conforms to MIL-STD-202.

■ Materials / Finishes

HT-025A-1, HT-025A-2

Component	Material	Finish
Tab	Copper	Tin-lead plated
Resistor	Metal film	———

HT-1A-1, HT-1A-2, HT-1A-3

Component	Material	Finish
Body	Aluminum	Nickel plated
Tab	Copper	Tin-lead plated
Resistor	Metal film	———

HT-05-3

Component	Material	Finish
Electrode	———	Tin plated
Resistor	Metal film	———

■ Ordering information

HT - 025 A - 1 (06)

① ② ③ ④ ⑤

① Series name: HT Series
② Input power 025: 0.25 W 05 : 0.5 W 1 : 1 W
③ Indicates substitute product
④ Suffix

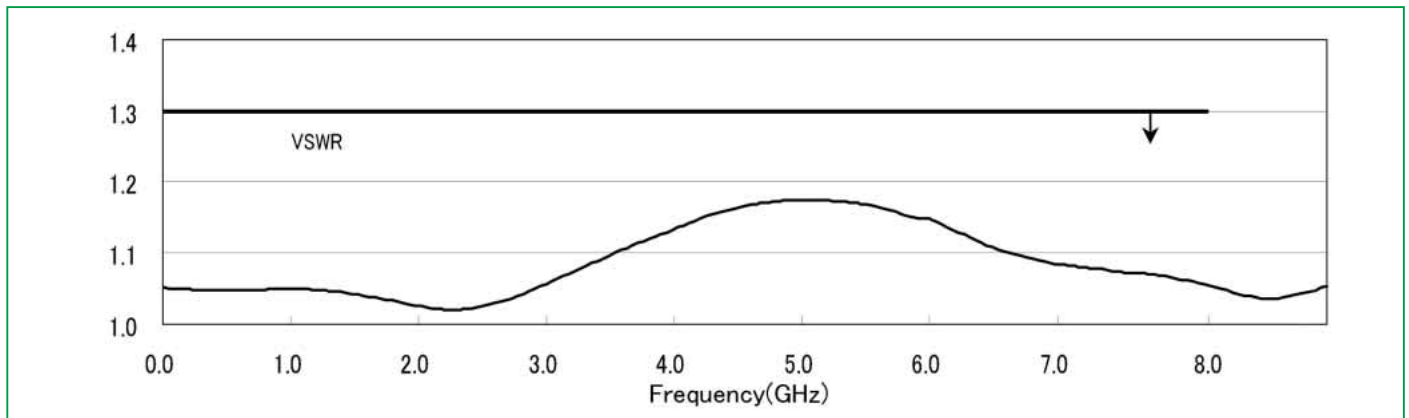
Specifications

Part number	Frequency range (GHz)	V.S.W.R (Max)	Characteristic Impedance (Ω)	Power (W)	Mounting surface temperature($^{\circ}\text{CMax.}$) at time of maximum input power	Heat resistance ($^{\circ}\text{C}$)	Weight (g)
HT-025A-1	DC-8	1.30	50	0.25	+65	50	0.1
HT-025A-2	DC-8	1.30	50	0.25	+65	50	0.1
HT-1A-1	DC-8	1.30	50	1	+65	50	0.3
HT-1A-2							
HT-1A-3							
HT-05-3 (Note)	DC-1	1.20	50	0.5	+65	150	0.1

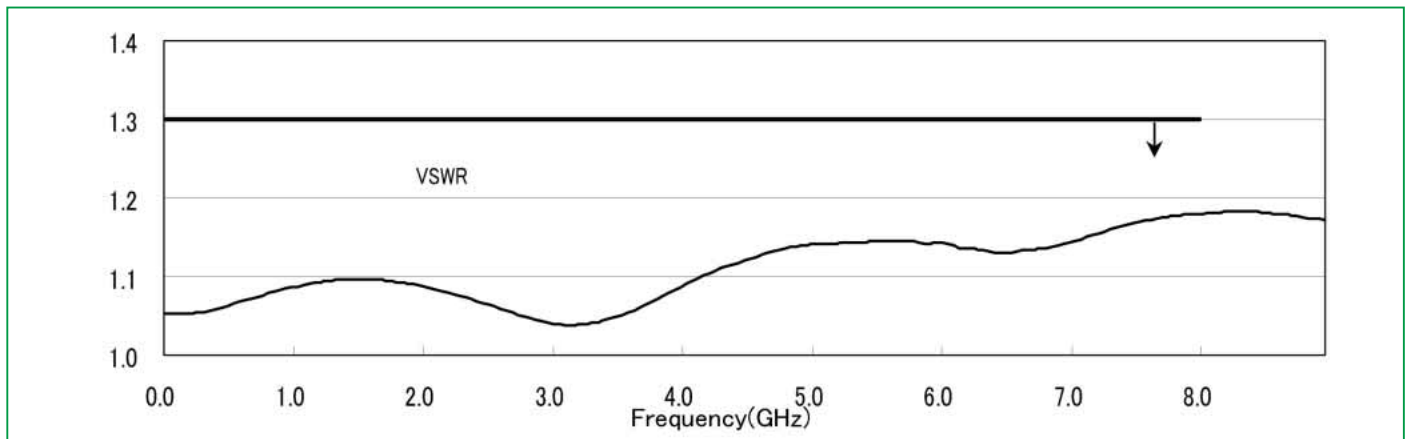
Note: Tape and reel packaging is available for HT-05-3. When ordering, add (06) after the end of the part number. One reel: 1,000 pieces

Typical performance data

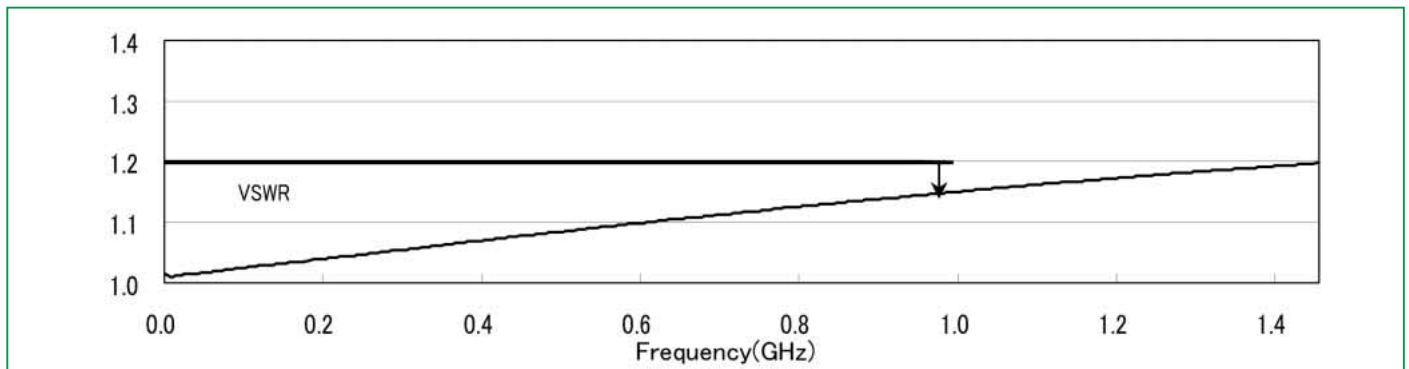
HT-025A-1



HT-1A-1

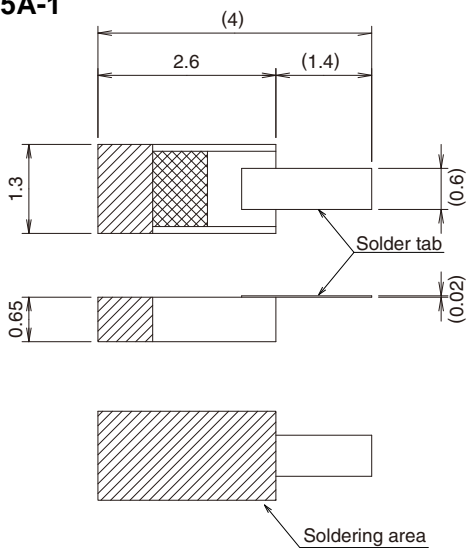


HT-05-3

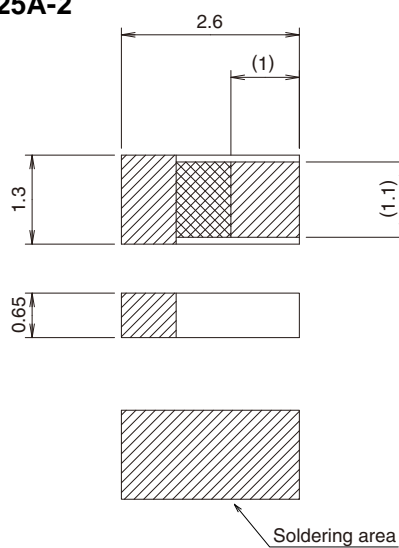


■ Dimensions

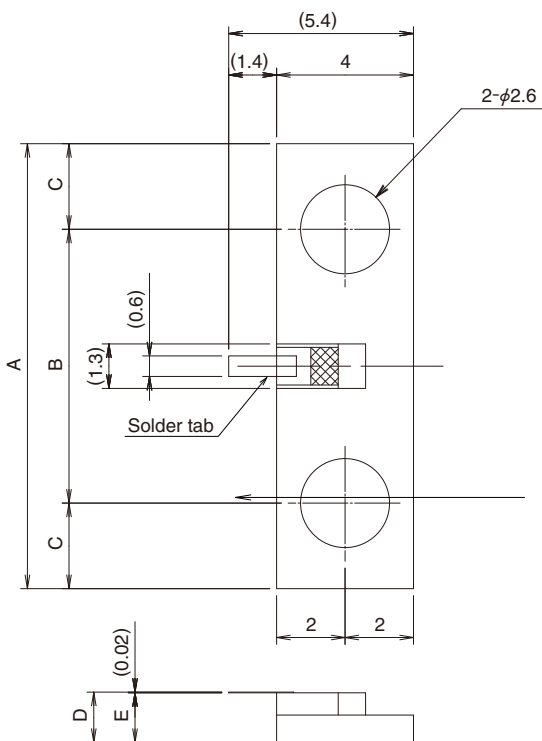
HT-025A-1



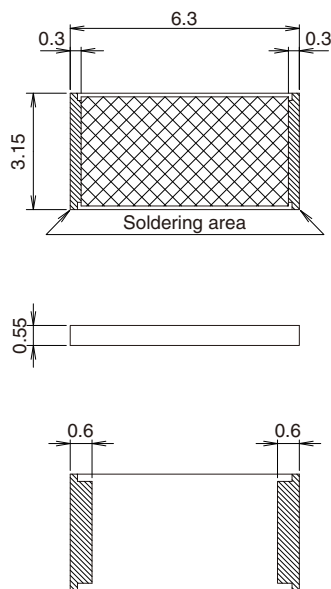
HT-025A-2



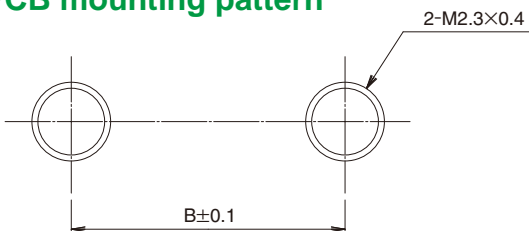
HT-1A-1, HT-1A-2, HT-1A-3



HT-05-3



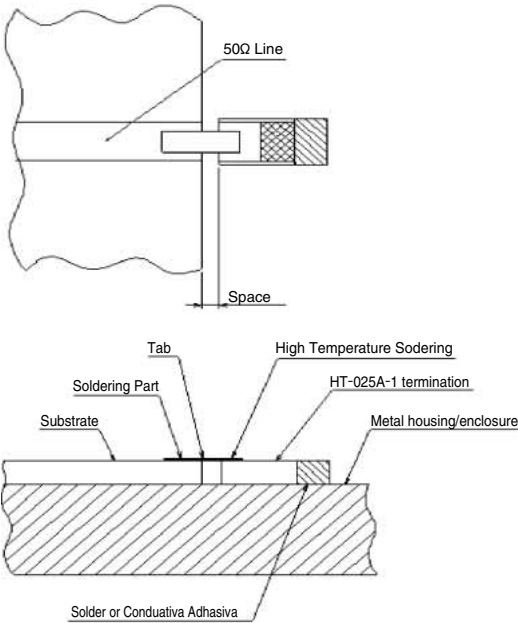
◆ PCB mounting pattern



Part number	A	B	C	D
HT-1A-1	13	8	1.47	1.45
HT-1A-2	13	8	1.17	1.15
HT-1A-3	16	12	1.47	1.45

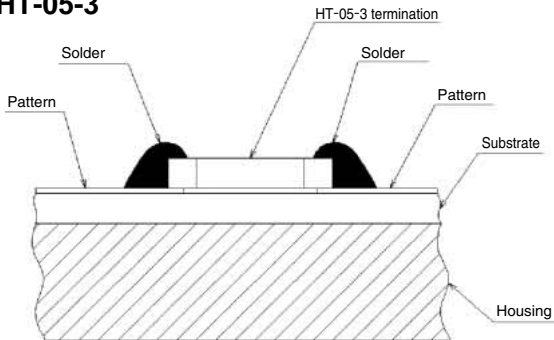
■ Mounting Instructions and Precautions

HT-025A-1



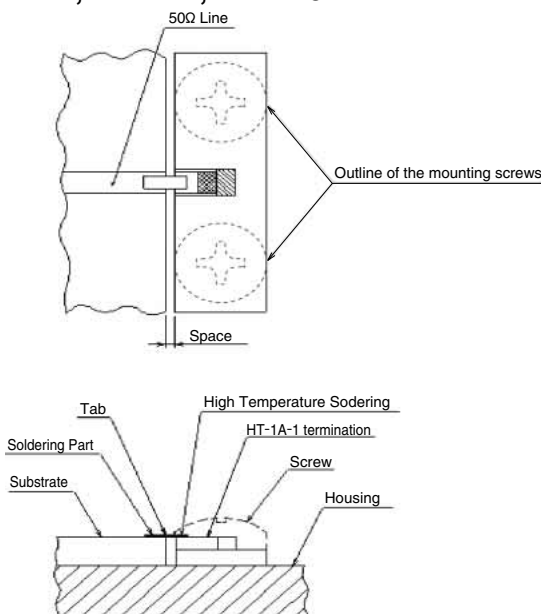
- *Do not leave a space between the termination and the microstrip board.
- *Keep the same thickness of the microstrip board as the tab height of the termination.
- *The soldering tab is attached to the termination with high-temperature solder (having melting point of 280°C). Soldering of the tab to the microstrip board must be performed at a temperature lower than 280°C. When soldering the tab to the 50 ohm line on the substrate, it is recommended to leave a slight slack in order to improve thermal reliability of the solder joint.

HT-05-3



- *Solder the termination directly on the pattern of the microstrip line.
- *Using a soldering iron adjusted to the temperature of 260°C, attach the termination within 5 seconds.
- *Once soldered in place, do not remove or reuse.

HT-1A-1, HT-1A-2, HT-1A-3



- *Do not leave a space between the HT-1A-1, HT-1A-2, and HT-1A-3 and the microstrip board.
- *Keep the same dimension for the thickness of the microstrip board and the tab height of the HT-1A-1, HT-1A-2, and HT-1A-3 from the housing.
- *The tabs of the HT-1A-1, HT-1A-2, and HT-1A-3 are attached with high-temperature solder (having a melting point of 280°C). Soldering to the microstrip board must be performed at a temperature lower than this. (See Note)

Note: Although the high frequency characteristics will be somewhat degraded, please attach the tab with some slack in order to improve the thermal reliability.



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