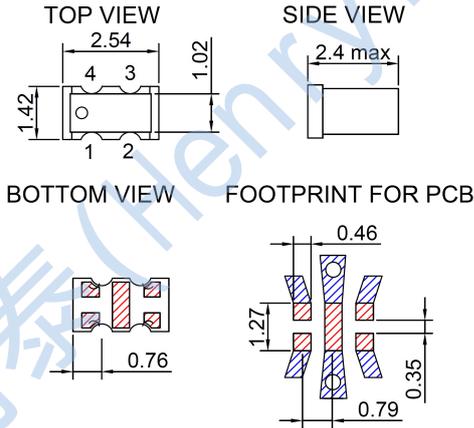




4.5-3000Mhz 50Ω 1:1 Ratio Transformer

HT-TTC1-33W+

Mechanical Dimensions:



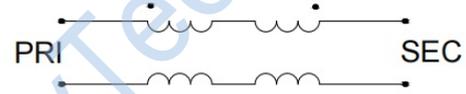
Notes:

- 1: Dimensions in mm.
- 2: Tolerance $\pm 0.3\text{mm}$ unless otherwise noted.

Ports Configuration:

| | |
|---------------|---|
| PRIMARY DOT | 1 |
| PRIMARY | 4 |
| SECONDARY DOT | 2 |
| SECONDARY | 3 |

Schematic:



Maximum Ratings:

| Parameters | Conditions | Unit | Min | Max |
|-----------------------------|------------|------------|-----|-----|
| RF Power | | Watt | | 1 |
| DC Current | | mA | | 300 |
| Operating Temperature Range | | Degree Cel | -40 | 85 |
| Storage Temperature Range | | Degree Cel | -55 | 100 |
| Moisture Sensitivity Level | | | | 1 |

Ordering Information:

| Part Description | Details |
|------------------|---------------|
| HT-TTC1-33W+ | 5000 per reel |

4.5-3000MHz 50Ω 1:1 Ratio Transformer

HT-TTC1-33W+

Electrical Specifications: Ta=25°C Zo=50 Ohm Pin = 0 dBm

| Parameter | Test Conditions | Unit | Min | Typical | Max |
|------------------------|-----------------|--------|-----|---------|------|
| Frequency Range | - | MHz | 4.5 | ~ | 3000 |
| Impedance | - | Ohm | - | 50 | - |
| Impedance Ratio | - | - | - | 1:1 | - |
| Average Insertion Loss | 50-1000MHz | dB | - | 0.7 | 1 |
| Average Insertion Loss | 10-2000MHz | dB | - | 1.5 | 2 |
| Average Insertion Loss | 4.5-3000MHz | dB | - | 2.6 | 3.3 |
| Amplitude Balance | 50-1000MHz | dB | - | 0.4 | 0.9 |
| Amplitude Balance | 10-2000MHz | dB | - | 0.8 | 1.2 |
| Amplitude Balance | 4.5-3000MHz | dB | - | 1 | 1.6 |
| Phase Balance(±) | 50-1000MHz | Degree | - | 2 | 6 |
| Phase Balance(±) | 10-2000MHz | Degree | - | 4 | 8 |
| Common Mode Rejection | 10-2000MHz | dB | 20 | 26 | - |
| Common Mode Rejection | 4.5-3000MHz | dB | 17 | 23 | - |

Notes:

1: Specifications guaranteed over the operating temperature range.

Typical Performance Curves: