

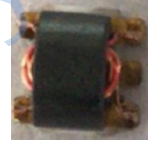
Features

- wideband, 10 to 700 MHz
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 1.3 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

Applications

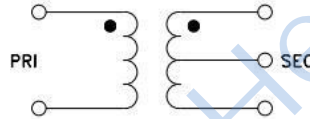
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifiers

HT-TC2-72T+



50Ω 10 to 700 MHz

Config. A



| Transformer Electrical Specifications | | | | | |
|---------------------------------------|----------------|------|------|------|--------|
| Parameter | Frequency(MHz) | Min. | Typ. | Max. | Unit |
| Impedance Ratio | | | 2 | | Ohm |
| Frequency Range | | 10 | - | 700 | MHz |
| Insertion Loss* | 10-400 | - | 0.4 | 1.3 | dB |
| | 400-700 | | 0.9 | 1.8 | |
| Amplitude Unbalance | 10-400 | - | 0.5 | 0.8 | dB |
| | 400-700 | | 1.3 | 2.0 | |
| Phase Unbalance | 10-400 | - | 1.5 | 7.0 | Degree |
| | 400-700 | | 2.25 | 9.0 | |

* Insertion Loss is referenced to mid-band loss, 0.5 dB.

Maximum Ratings

| | |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 0.25W |
| DC Current | 30mA |

Permanent damage may occur if any of these limits are exceeded.

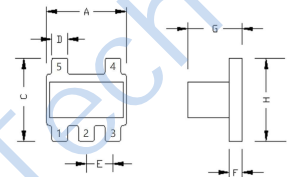
Pin Connections

| | |
|---------------|---|
| PRIMARY DOT | 4 |
| PRIMARY | 5 |
| SECONDARY DOT | 3 |
| SECONDARY | 1 |
| SECONDARY CT | 2 |

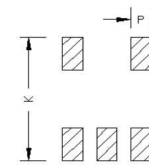
Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) | AMPLITUDE UNBALANCE (dB) | PHASE UNBALANCE (Deg.) |
|-----------------|---------------------|--------------------|--------------------------|------------------------|
| 10 | 0.62 | 24.14 | 0.00 | 0.01 |
| 50 | 0.57 | 25.87 | 0.01 | 0.24 |
| 100 | 0.59 | 24.32 | 0.03 | 0.52 |
| 200 | 0.64 | 20.68 | 0.11 | 1.01 |
| 300 | 0.70 | 18.00 | 0.26 | 1.53 |
| 400 | 0.77 | 16.01 | 0.46 | 2.4 |
| 500 | 0.85 | 14.49 | 0.71 | 2.49 |
| 600 | 0.96 | 13.28 | 1.02 | 2.88 |
| 700 | 1.09 | 12.30 | 1.39 | 3.17 |

Outline Drawing



PCB Land Pattern



Suggested Layout, Tolerance to be within ±0.02

Outline Dimensions (mm)

| | | | |
|---|------|----|-------|
| A | 3.81 | N | - |
| B | - | M | 1.27 |
| C | 3.81 | P | 0.76 |
| D | 0.76 | K | 4.81 |
| E | 1.27 | L | 1.30 |
| F | 0.61 | H | 3.81 |
| G | 2.71 | WT | 0.16g |

