

## H3-TC4-19+

10-1900MHz 50Ω 1:4 Balun

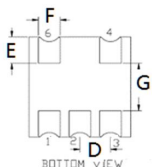
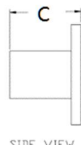
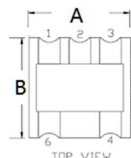
### APPLICATIONS

- Ideally suitable for PCS, wideband push-pull amplifiers and cellular applications.

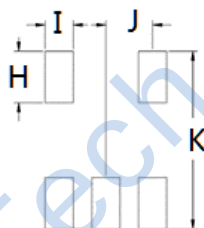
### FEATURES

- Surface mount
- Impedance ratio: 1:4
- Balanced transmission line
- RoHS compliant
- 260°C reflow compatible

### DIMENSIONS



### Land Pattern



| A    | B    | C    | D    | H    | I    | J    |
|------|------|------|------|------|------|------|
| 4.21 | 4.21 | 2.70 | 1.27 | 1.40 | 0.76 | 1.27 |
| E    | F    | G    |      | K    |      |      |
| 1.11 | 0.90 | 2.00 |      | 4.83 |      |      |

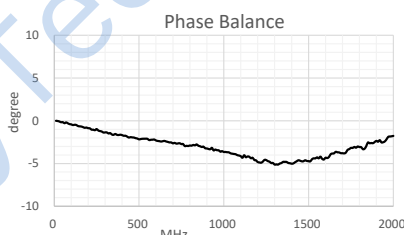
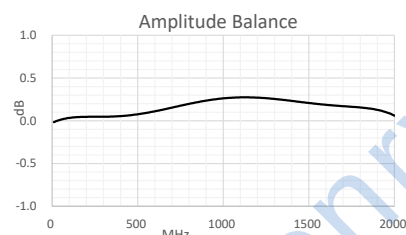
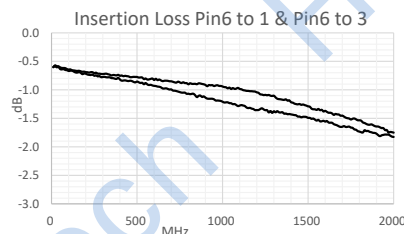
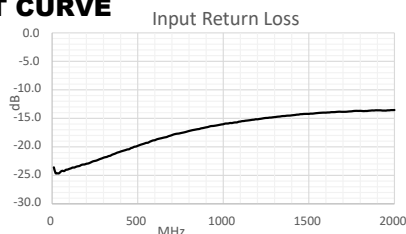
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

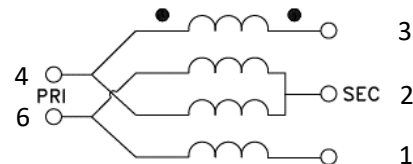
### ELECTRICAL SPECIFICATIONS@25°C:

| Parameters (P#: ENA PORT)         | frequency band | Min. | Typ. | Max. | Unit |
|-----------------------------------|----------------|------|------|------|------|
| Port Impedance, Z0 (P1 / P2 / P3) |                |      | 50   |      | Ohm  |
| Insertion Loss                    | 10-200MHz      |      | 0.7  | 1.0  | dB   |
|                                   | 200-1000MHz    |      | 1.3  | 2.0  | dB   |
|                                   | 1000-1900MHz   |      | 1.7  | 3.0  | dB   |
| Phase Balance                     | 10-1900MHz     |      | 4.0  | 6.0  | Deg  |
| Amplitude Balance                 | 10-1900MHz     |      | 0.4  | 2.0  | dB   |
| Return Loss                       | 10-200MHz      | 16.0 | 23.0 |      | dB   |
|                                   | 200-1000MHz    | 7.0  | 16.0 |      | dB   |
|                                   | 1000-1900MHz   | 5.0  | 13.0 |      | dB   |

### TEST CURVE



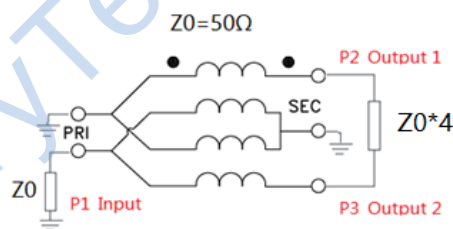
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

| Pin No. | Function             |
|---------|----------------------|
| 1       | Secondary            |
| 2       | Secondary CT(Ground) |
| 3       | Secondary Dot        |
| 4       | Primary(Ground)      |
| 6       | Primary Dot          |

### APPLICATION & TEST CIRCUIT



### ABSOLUTE MAXIMUM RATINGS

| Parameter                   | Value       |
|-----------------------------|-------------|
| Operating Temperature Range | -40 to 85°C |
| Storage Temperature Range   | -40 to 85°C |
| Input RF Power              | 2W Max      |

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