

H3-ETC1-1-13TR

4.5-3000MHz 50Ω 1:1 Balun

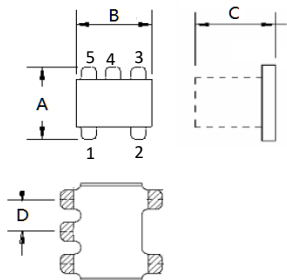
APPLICATIONS

Ideally suited for high volume cellular and wireless applications.

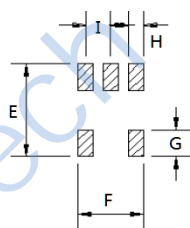
FEATURES

- Surface mount
- Impedance ratio: 1:1
- Available on tape and reel
- RoHS compliant and Pb free
- 260°C reflow compatible

DIMENSIONS



Land Pattern



| A | B | C |
|------|------|------|
| 3.81 | 3.81 | 2.75 |
| D | | |
| 1.27 | | |

| E | F | G |
|------|------|------|
| 4.83 | 3.30 | 1.40 |
| H | J | |
| 0.76 | 1.27 | |

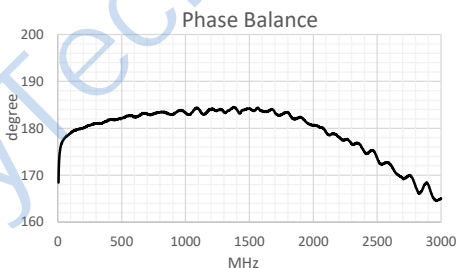
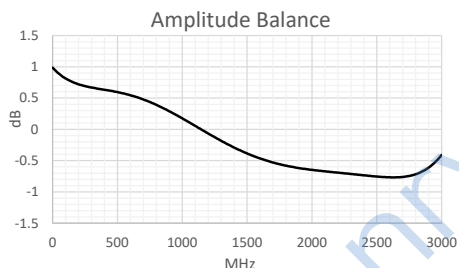
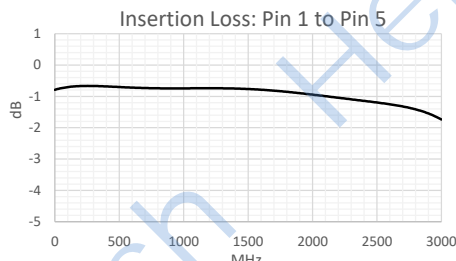
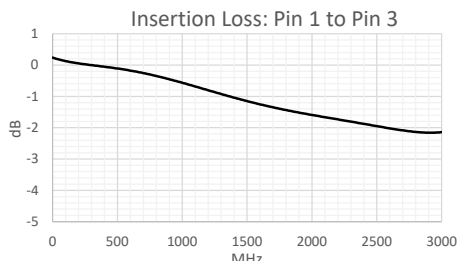
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

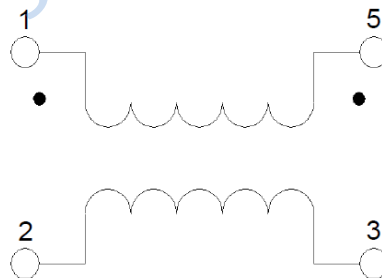
ELECTRICAL SPECIFICATIONS@25°C:

| Parameters (P#: ENA PORT) | frequency band | Min. | Typ. | Max. | Unit |
|-----------------------------------|----------------|------|----------|------|------|
| Port Impedance, Z0 (P1 / P2 / P3) | | | 50/25/25 | | Ohm |
| Insertion Loss | 4.5-1000MHz | | 0.6 | 1.0 | dB |
| | 1000-2000MHz | | 1.7 | 2.0 | dB |
| | 2000-3000MHz | | 2.3 | 3.5 | dB |
| Amplitude Balance | - | | - | ±1.0 | dB |
| Phase Balance (Nominal 180°) | - | | - | ±20 | ° |

TEST CURVE



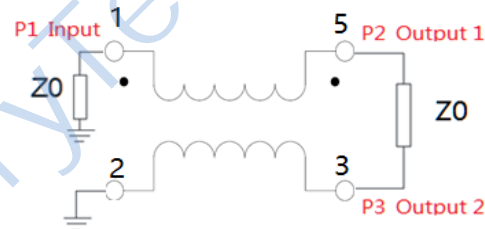
FUNCTIONAL SCHEMATIC



Pin Configuration

| Pin No. | Function |
|---------|------------------------|
| 1 | Primary Dot |
| 2 | Primary |
| 3 | Secondary |
| 4 | Not Connected (ground) |
| 5 | Secondary Dot |

APPLICATION & TEST CIRCUIT



Z0=50 Ω

ABSOLUTE MAXIMUM RATINGS

| Parameter | Value |
|-----------------------------|-------------|
| Input Power | 250mW MAX |
| DC Current | 30mA MAX |
| Operating Temperature Range | -55 to 85°C |

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[CK07F0](#) [DS-329-PIN](#) [DS-313-PIN](#) [TP-104-PIN](#) [TP-101-PIN](#) [HH-128-PIN](#) [8594810000](#) [T-1000-N](#) [JP506S](#) [XC0900P-10S](#) [XC0900B-30S](#)
[CHE1260-QAG](#) [11305-10](#) [5962-9091202MXA](#) [3A412S](#) [X3C06A4-03S](#) [B39000Z3410A4](#) [DSS-333-PIN](#) [PD2425J5050S2HF](#)
[B39242B4360P810](#) [B39781B8005P810](#)