

## H3-TC1. 33-282+

5-2800MHz 75Ω 3:4 Balun

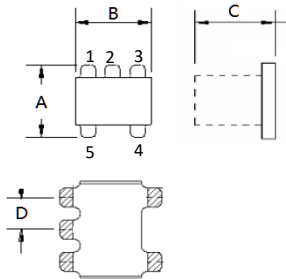
### APPLICATIONS

• Ideally suited for high volume cellular and wireless applications.

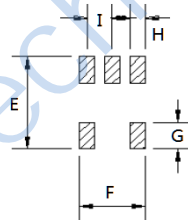
### FEATURES

- Surface mount
- Impedance ratio: 3:4
- Available on tape and reel
- RoHS compliant and Pb free
- 260°C reflow compatible
- CT on Secondary

### 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 |      |

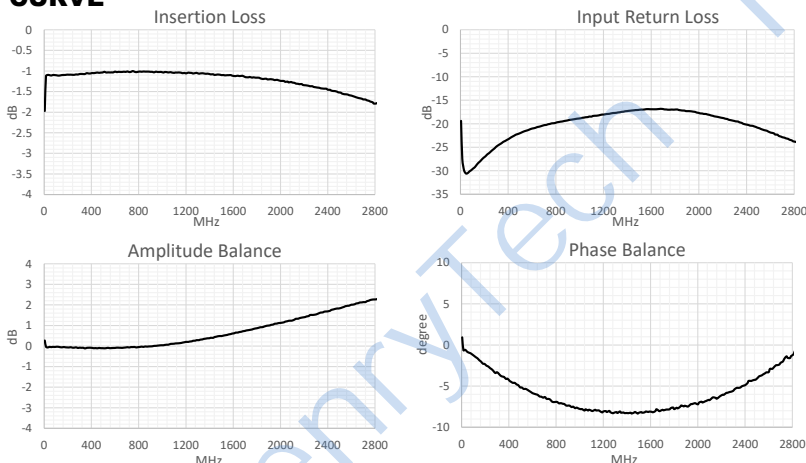
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

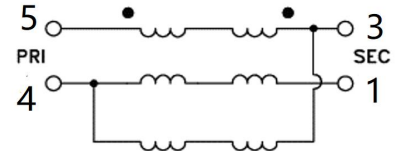
### ELECTRICAL SPECIFICATIONS@25°C:

| Parameters (P#: ENA PORT)                     | frequency band | Min. | Typ.     | Max. | Unit |
|---|----------------|------|----------|------|------|
| Port Impedance, Z <sub>0</sub> (P1 / P2 / P3) |                |      | 75/50/50 |      | Ohm  |
| Insertion Loss                                | 5-2800MHz      |      | 2.1      | 3.5  | dB   |
|   | 30-2000MHz     |      | 1.5      | 2.5  | dB   |
|   | 50-1500MHz     |      | 1.1      | 1.5  | dB   |
| Return Loss                                   | 5-2800MHz      | 10.0 | 18.0     |      | dB   |
| Amplitude Balance                             | 5-2800MHz      |      | 2.5      | 3.2  | dB   |
|   | 30-2000MHz     |      | 1.1      | 1.7  | dB   |
| Phase UnBalance                               | 5-2800MHz      |      | 8.0      | 12   | Deg  |

### TEST CURVE



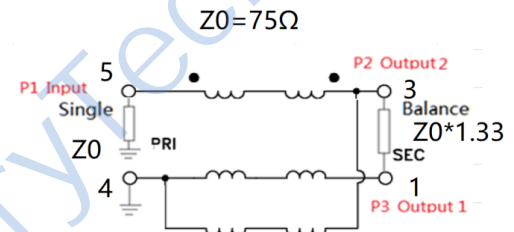
### FUNCTIONAL SCHEMATIC



### PIN CONFIGURATION

| Pin No. | Function      |
|---------|---------------|
| 1       | Secondary Dot |
| 2       | Not Used      |
| 3       | Secondary     |
| 4       | Primary       |
| 5       | Primary Dot   |

### APPLICATION & TEST CIRCUIT



### ABSOLUTE MAXIMUM RATINGS

| Parameter                   | Value       |
|-----------------------------|-------------|
| Input Power                 | 250mW MAX   |
| DC Current                  | 30mA MAX    |
| Operating Temperature Range | -40 to 85°C |

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