

# Transmission line transformer

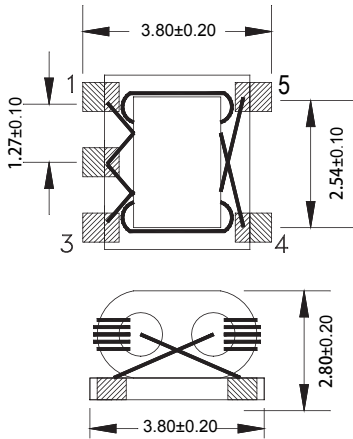
## EBH1642-A013522

2019-11-25 Rev. 0

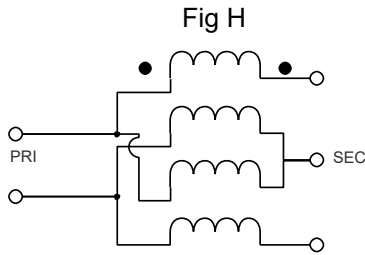


1:4 50Ω:200Ω 500-3000 MHz

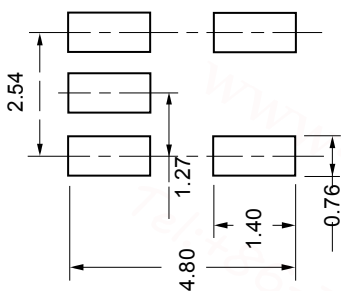
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

| Pin no. | Function             |
|---------|----------------------|
| 1       | Secondary Dot        |
| 2       | Secondary Centre Tap |
| 3       | Secondary            |
| 4       | Primary              |
| 5       | Primary Dot          |

### Features

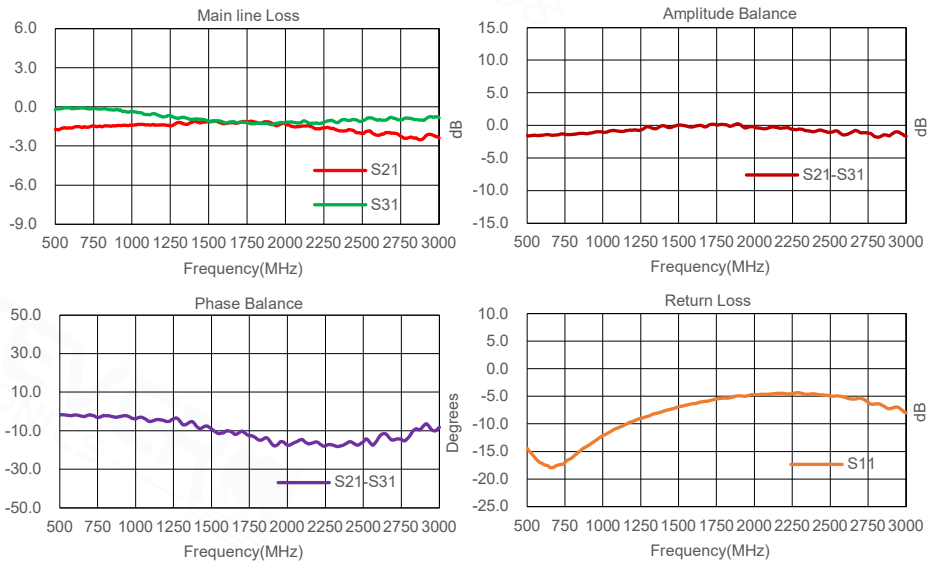
- Excellent Temperature Stability
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible
- Power Input(as a splitter): 0.25W Max
- DC current: 30mA
- Operating temperature range: -40 C to +85 C
- Storage temperature range: -55 C to +125 C

### Applications

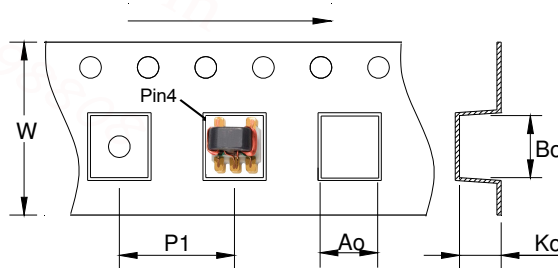
- RF circuits
- Mobile radio
- Satellite TV
- Cordless phones

### Electrical Specifications:TA=25°C, 0dBm, Z0=50Ω

| Parameter                | Test Conditions | Units | Min | Typ  | Max  |
|--------------------------|-----------------|-------|-----|------|------|
| Insertion Loss 1(Pin4-3) | 500-3000MHz     | dB    | —   | 1.5  | 3.0  |
| Insertion Loss 1(Pin4-1) | 500-3000MHz     | dB    | —   | 1.0  | 2.5  |
| Amplitude Balance        | 500-3000MHz     | dB    | 0.0 | 1.0  | 2.0  |
| Phase Balance            | 500-3000MHz     | °     | 0.0 | 10.0 | 35.0 |
| Return Loss(Pin4)        | 500-3000MHz     | dB    | 3.0 | 8.0  | —    |



### Carrier Tape Orientation



### Tape & Reel Information

| Parameter    | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS   | 2000  |
| Reel Size    | mm    | 330   |
| Tape Width   | mm    | 12.00 |
| Pitch        | mm    | 8.00  |
| Ao           | mm    | 4.00  |
| Bo           | mm    | 4.00  |
| Ko           | mm    | 2.90  |