

# RF Balun Transformer

## EBA0507-G018187

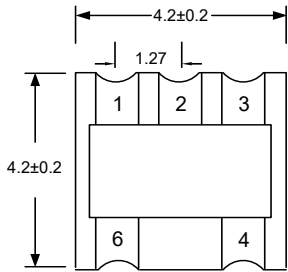
2023-08-17 Rev. 0



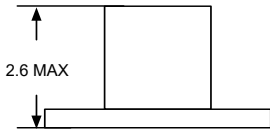
50Ω 1: 2 CT Flux Coupled Transformer

10-700MHz

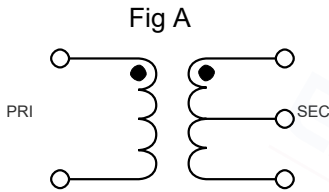
### Outline Drawing(mm)



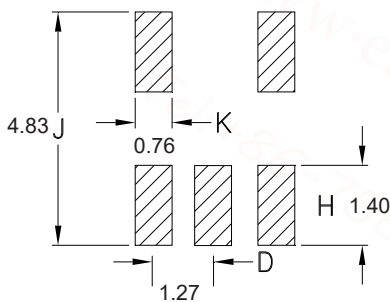
Top View



### Electrical structure



### Recommended layout(mm)



### Pin Connections

|          |      |
|----------|------|
| Input    | 6    |
| Output 1 | 1    |
| Output 2 | 3    |
| Ground   | 2, 4 |

### Features

- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 250mW Max
- DC Current: 30mA Max

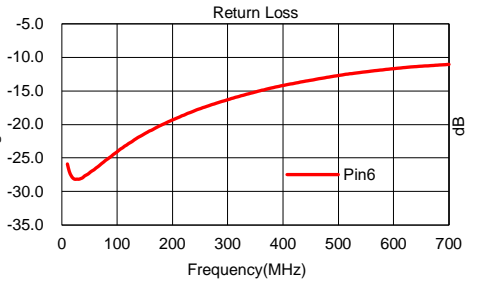
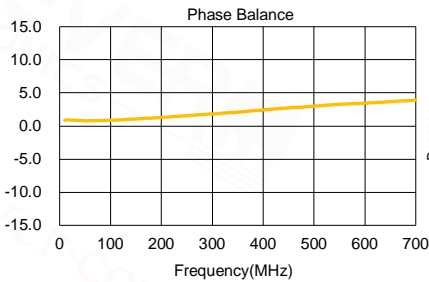
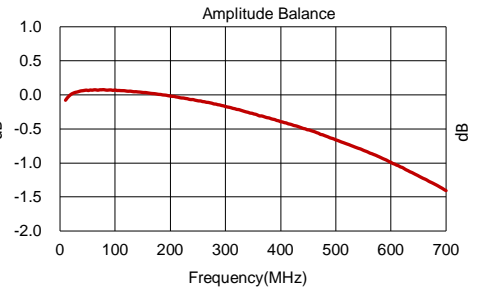
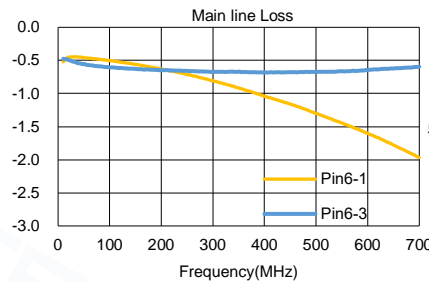
### Applications

- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

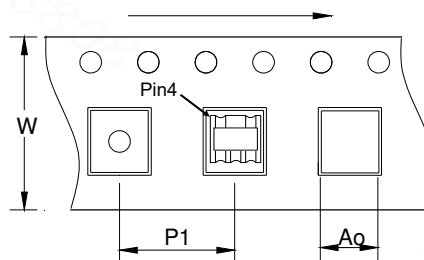
Equivalent to: TC2-72T+

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

| Parameter               | Test Conditions | Units | Min  | Typ  | Max |
|-------------------------|-----------------|-------|------|------|-----|
| Main line Loss (Pin6-1) | 10-700MHz       | dB    | —    | 1.5  | 1.8 |
| Main line Loss (Pin6-3) | 10-700MHz       | dB    | —    | 0.6  | 1.0 |
| Amplitude Balance       | 10-700MHz       | dB    | 0.0  | 0.2  | 2.0 |
| Phase Balance           | 10-700MHz       | °     | 0.0  | 5.0  | 9.0 |
| Input Return Loss(Pin6) | 10-700MHz       | dB    | 11.0 | 16.0 | —   |



### Carrier Tape Orientation



### Tape & Reel Information

| Parameter    | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS   | 2500  |
| Reel Size    | mm    | 330   |
| Tape Width   | mm    | 12.00 |
| Pitch        | mm    | 8.00  |
| Ao           | mm    | 4.50  |
| Bo           | mm    | 4.50  |
| Ko           | mm    | 3.20  |