

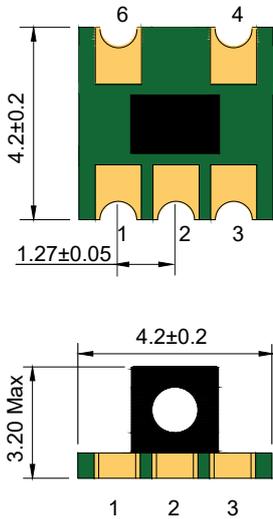
RF Balun Transformer

AWA4-1T-A018644

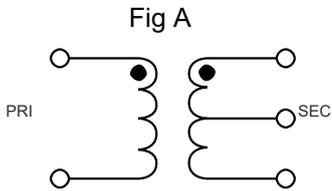


50Ω 1: 4 CT Flux Coupled Transformer 0.5-300MHz

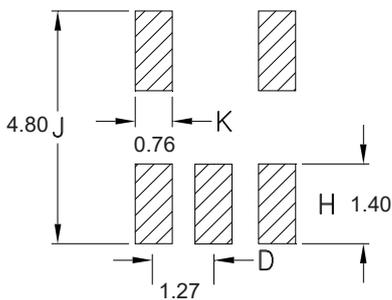
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)

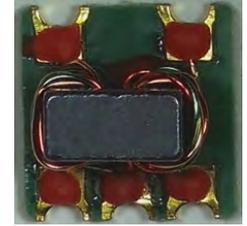


Pin Connections

| | |
|----------|------|
| 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

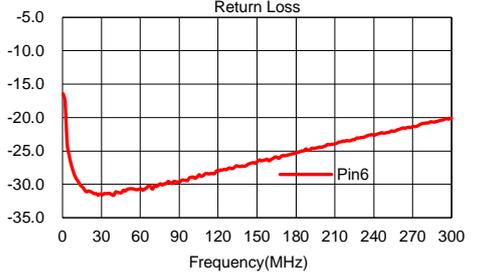
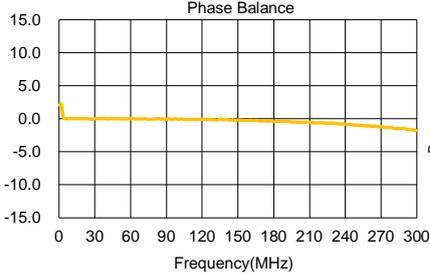
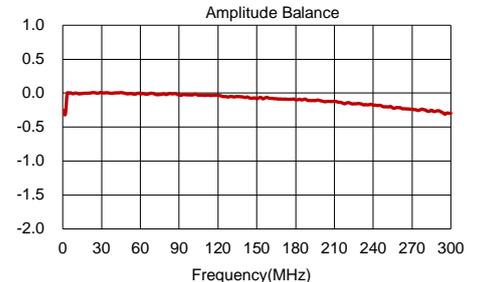
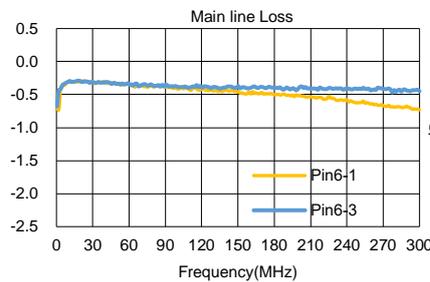


Applications

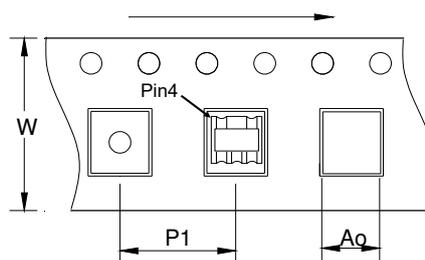
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

| Parameter | Test Conditions | Units | Min | Typ | Max |
|-------------------------|-----------------|-------|------|------|-----|
| Main line Loss (Pin6-1) | 0.5-300MHz | dB | — | 0.7 | 1.0 |
| Main line Loss (Pin6-3) | 0.5-300MHz | dB | — | 0.5 | 0.8 |
| Amplitude Balance | 0.5-300MHz | dB | 0.0 | 0.3 | 0.8 |
| Phase Balance | 0.5-300MHz | ° | 0.0 | 2.0 | 8.0 |
| Input Return Loss(Pin6) | 0.5-300MHz | dB | 16.0 | 20.0 | — |



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 | 4.50 |
| Bo | mm | 4.50 |
| Ko | mm | 3.20 |

