

RF Balun Transformer

EBA1530-C001087

2020-04-16 Rev. 0



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

Outline Drawing(mm)

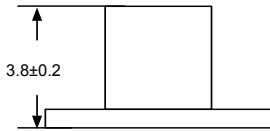
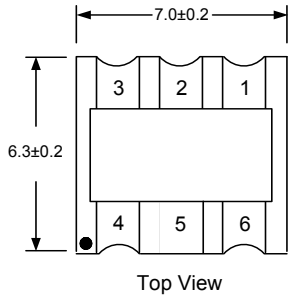
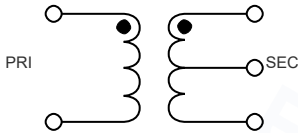
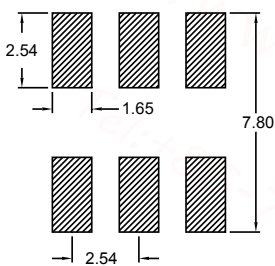


Fig A



Recommended layout(mm)



Pin Connections

| | |
|------------------------|---|
| Input | 4 |
| Output 1 | 3 |
| Output 2 | 1 |
| Not connected (ground) | 5 |
| ground | 6 |

Features

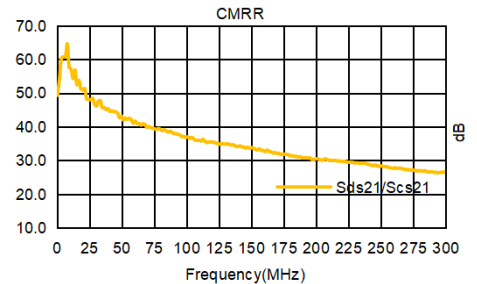
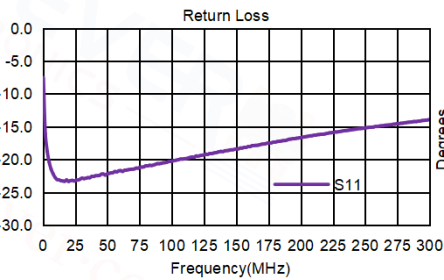
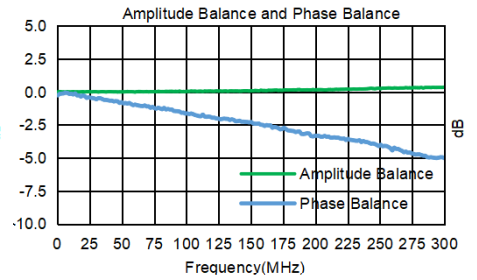
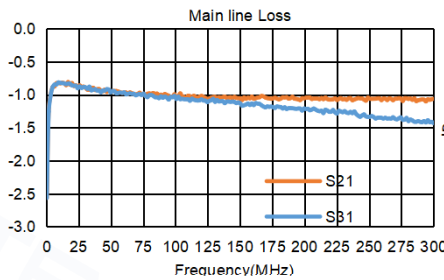
- RF Power,0.5W Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

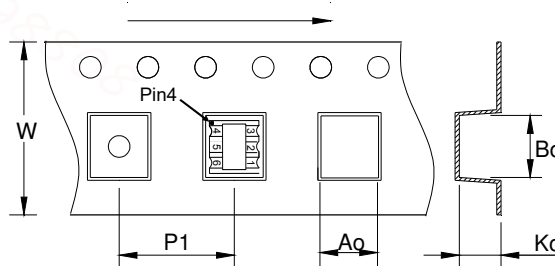
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

| Parameter | Test Conditions | Units | Min | Typ | Max |
|-------------------------|-----------------|-------|------|------|-----|
| Main line Loss (Pin4-3) | 1-300MHz | dB | — | 1.0 | 1.5 |
| Main line Loss (Pin4-1) | 1-300MHz | dB | — | 1.2 | 1.8 |
| Amplitude Balance | 1-300MHz | dB | 0.0 | 0.5 | 1.2 |
| Phase Balance | 1-300MHz | ° | 0.0 | 3.0 | 8.0 |
| Input Return Loss(Pin4) | 1-300MHz | dB | 12.0 | 16.0 | — |
| CMRR | 1-300MHz | dB | 20.0 | 30.0 | — |



Carrier Tape Orientation



Tape & Reel Information

| Parameter | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS | 1500 |
| Reel Size | mm | 330 |
| Tape Width | mm | 24.00 |
| Pitch | mm | 12.00 |
| Ao | mm | 7.20 |
| Bo | mm | 8.10 |
| Ko | mm | 3.80 |