

RF Balun Transformer

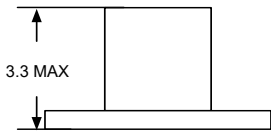
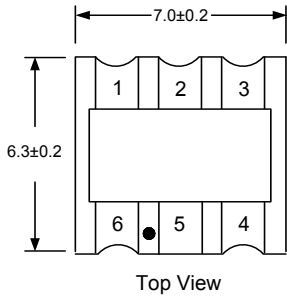
EBF0303-G001081

2021-01-07 Rev. 0



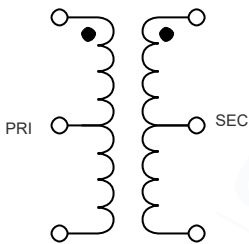
50Ω 1: 1 CT Flux Coupled Transformer 0.3-300 MHz

Outline Drawing(mm)

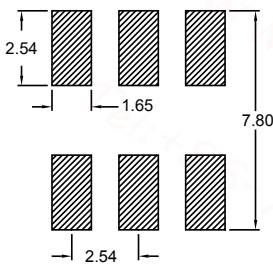


Electrical structure

Fig F



Recommended layout(mm)



Pin Connections

| | |
|---------------|---|
| PRIMARY DOT | 4 |
| PRIMARY | 6 |
| PRIMARY CT | 5 |
| SECONDARY DOT | 3 |
| SECONDARY | 1 |
| SECONDARY CT | 2 |

Features

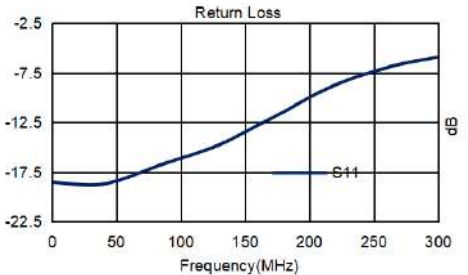
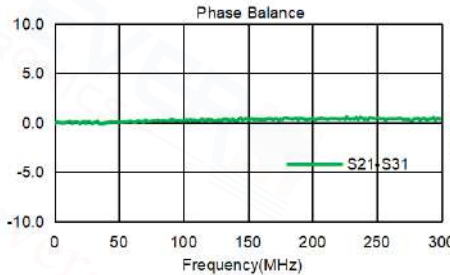
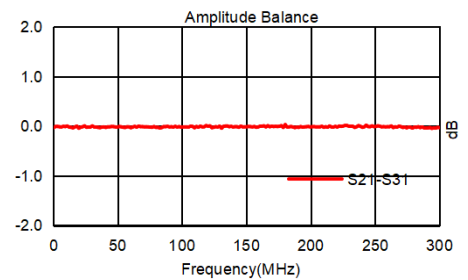
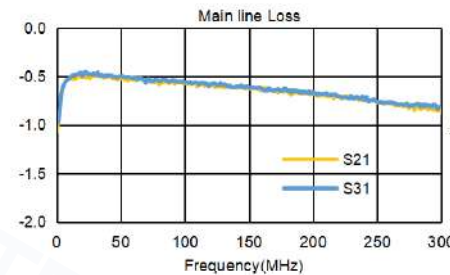
- RF power: 0.50W
- DC current: 100mA
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

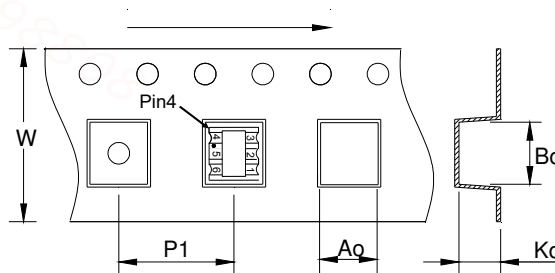
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

| Parameter | Test Conditions | Units | Min | Typ | Max |
|-------------------------|-----------------|-------|-----|------|-----|
| Main line Loss (Pin4-3) | 0.3-300MHz | dB | — | 0.8 | 1.2 |
| Main line Loss (Pin4-1) | 0.3-300MHz | dB | — | 0.8 | 1.2 |
| Amplitude Balance | 0.3-300MHz | dB | 0.0 | 0.1 | 0.8 |
| Phase Balance | 0.3-300MHz | ° | 0.0 | 1.0 | 5.0 |
| Input Return Loss(Pin4) | 0.3-300MHz | dB | 6.0 | 10.0 | — |



Carrier Tape Orientation



Tape & Reel Information

| Parameter | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS | 1500 |
| Reel Size | mm | 330 |
| Tape Width | mm | 16.00 |
| Pitch | mm | 12.00 |
| Ao | mm | 7.20 |
| Bo | mm | 8.10 |
| Ko | mm | 3.80 |