

RF Balun Transformer

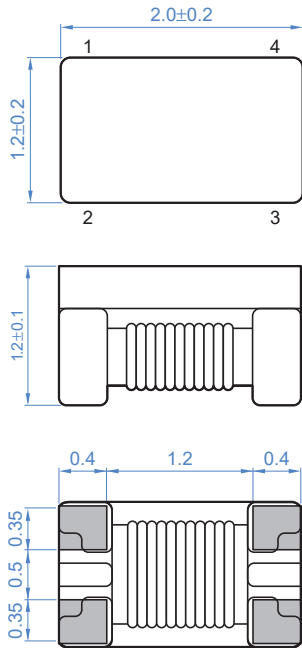
ETB50011-045M-201

2022-12-19 Rev.1

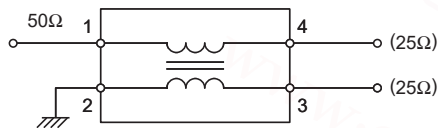


50Ω 1:1 Transmission Line Transformer 50-3000 MHz

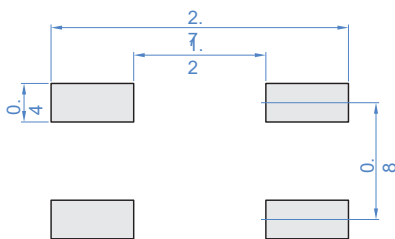
Outline Drawing(mm)



Circuit Diagram



Recommended layout(mm)



Features

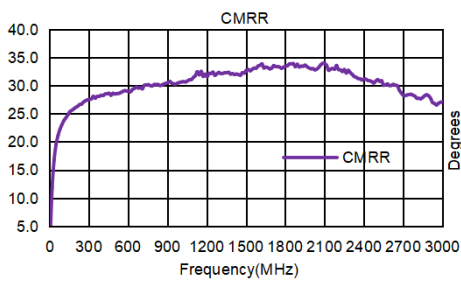
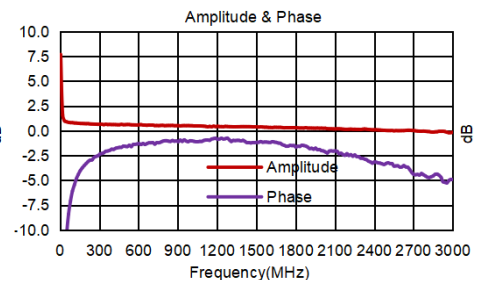
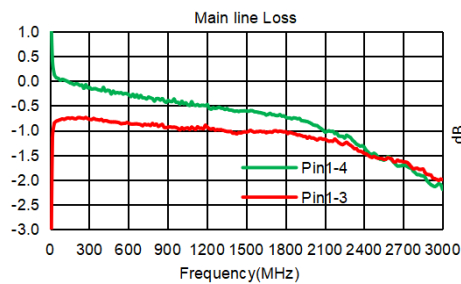
- RF Power, 0.25W Max
- DC Current, 300mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

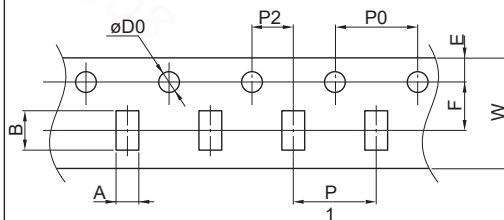
- IFor Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin1-4)	50-3000MHz	dB	—	0.5	2.5
Main line Loss (Pin1-3)	50-3000MHz	dB	—	1.0	2.5
Amplitude Balance	50-3000MHz	dB	—	0.7	1.2
Phase Balance	50-3000MHz	°	—	1.5	10.0
Input Return Loss(Pin1)	50-3000MHz	dB	10.0	18.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	4000
Reel Size	mm	180
Tape Width	mm	8.00
P0	mm	4.00
A	mm	1.40
B	mm	2.30
K	mm	1.40