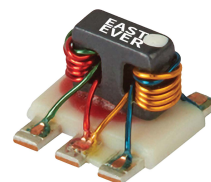


RF Balun Transformer

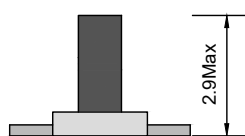
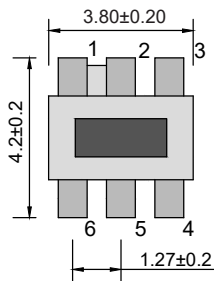
EBG1382-B012B30

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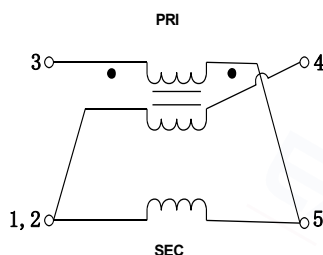
Ω 1:1 Transmission Line Transformer 0.5-3800 MHz

Outline Drawing(mm)

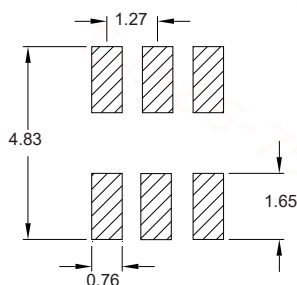


Electrical Structure

Fig G



Recommended Layout(mm)



Pin Connections

Input	3
Output 1	4
Output 2	5
Ground	1, 2
Not Used	6

Features

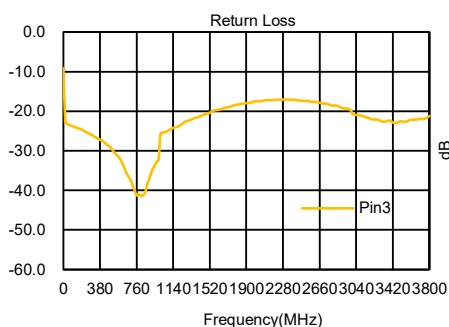
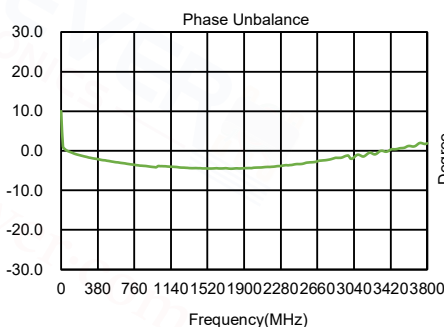
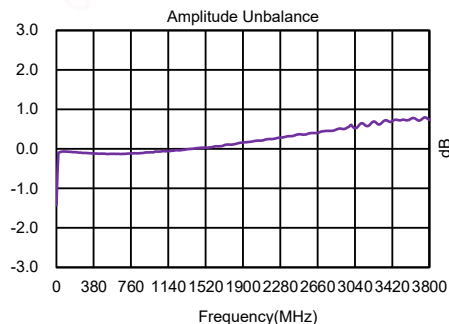
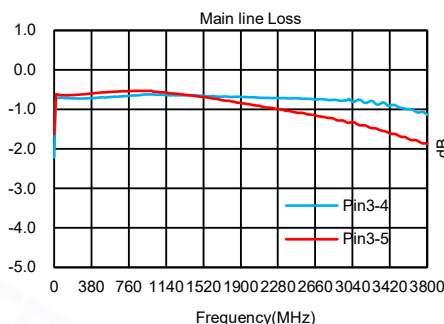
- RF Power, 0.2W Max
- DC current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

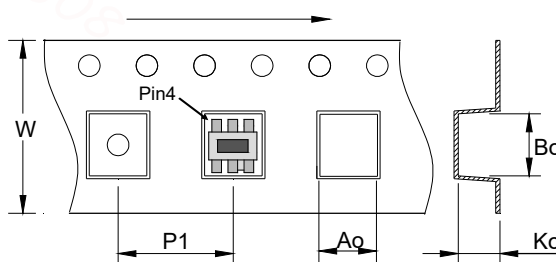
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Condition	Units	Min	Typ	Max
Main line Loss(Pin3-4)	10-2000MHz 0.5-3800MHz	dB	—	1.1 1.9	2.0 3.0
Main line Loss(Pin3-5)	10-2000MHz 0.5-3800MHz	dB	—	1.1 1.9	2.0 3.0
Amplitude Unbalance	0.5-2000MHz 2000-3000MHz	dB	—	0.5 1.2	—
Phase Unbalance	0.5-3000MHz 3000-3800MHz	°	—	4.0 6.0	—
Input Return Loss(Pin3)	0.5-3800MHz	dB	—	12.0	—



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	4.3
Bo	mm	4.3
Ko	mm	3.0

