

RF Balun Transformer

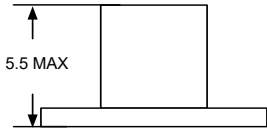
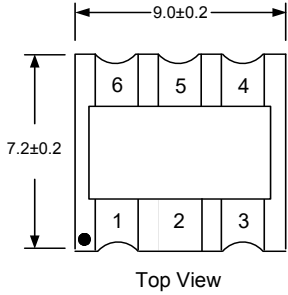
B024-458PT-3-1T-I378

2022-08-20 Rev. 0

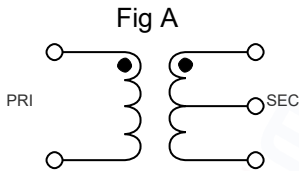


50Ω 1: 3 CT Flux Coupled Transformer 0.3-200 MHz

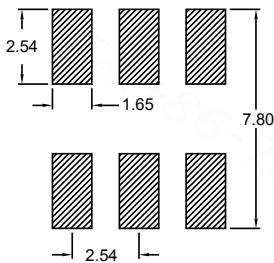
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Output 1	6
Output 2	4
Ground	3,5

Features

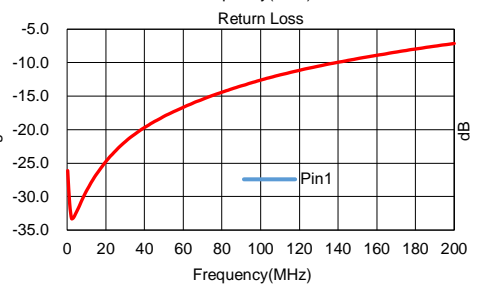
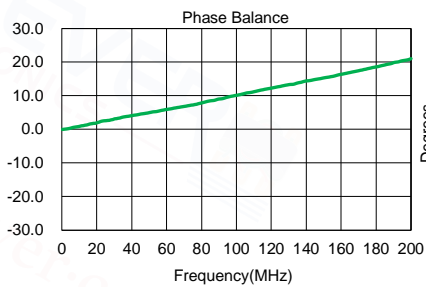
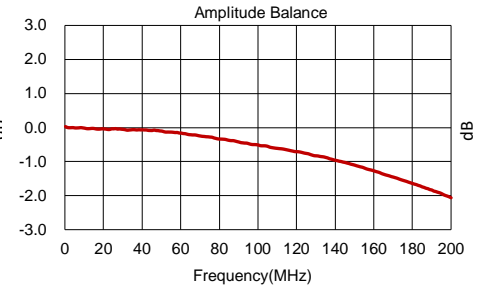
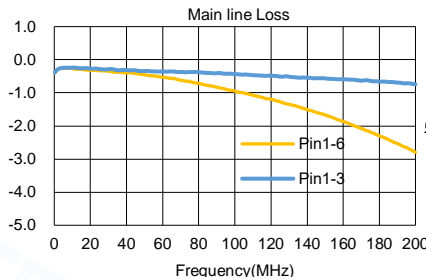
- DC Current: 30mA
- Input Power: 250mW
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

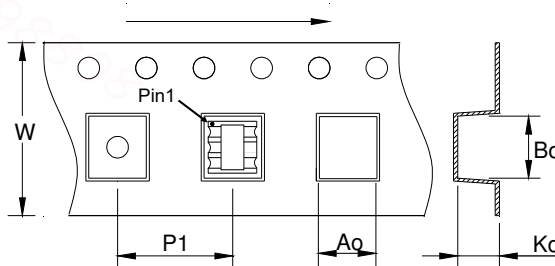
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin1-6)	0.3-200MHz	dB	—	2.5	3.5
Main line Loss (Pin1-3)	0.3-200MHz	dB	—	0.8	1.5
Amplitude Balance	0.3-200MHz	dB	0.0	2.0	3.0
Phase Balance	0.3-200MHz	°	0.0	20.0	30.0
Input Return Loss(Pin1)	0.3-200MHz	dB	5.0	10.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	700
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	7.60
Bo	mm	9.50
Ko	mm	5.90