

RF Directional Coupler

ECJ0701-D009002

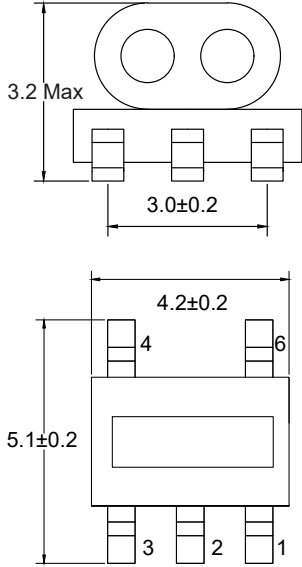
2024-09-29 Rev. 0



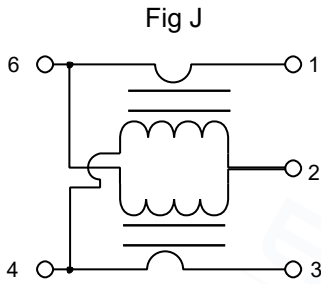
50Ω 7dB Directional Coupler

5-1000MHz

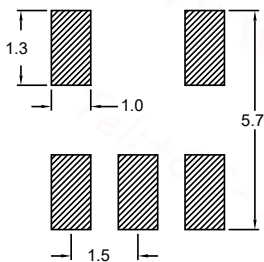
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	3
Coupling	1
Output	4
Ground	2
External 50 Ω	6

Features

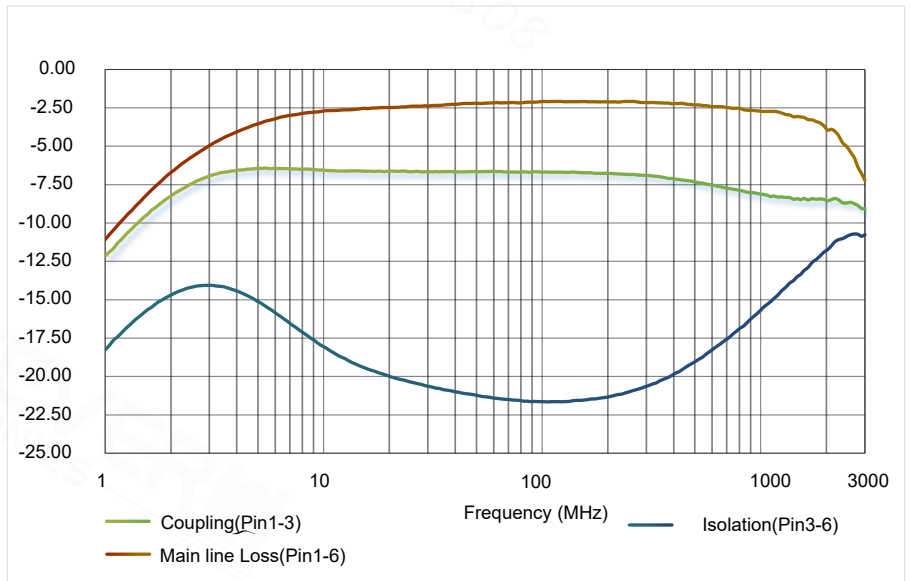
- RF Power,0.25W Max
- DC Current,30mA Max
- Operating temperature range:-40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free

Applications

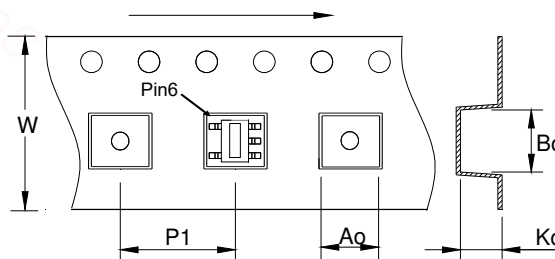
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-1000MHz	dB	6.0	7.0	8.0
Main line Loss(Pin1-6)	5-1000MHz	dB	—	2.5	3.0
Isolation(Pin3-6)	5-1000MHz	dB	15.0	20.0	—



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	5.70
Bo	mm	4.50
Ko	mm	3.60