

RF Directional Coupler

ECJ1601-D010942

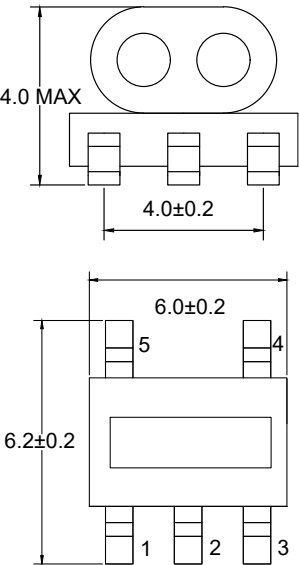
2024-09-29 Rev. 1



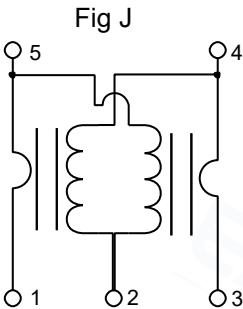
50Ω 16dB Directional Coupler

5-1000MHz

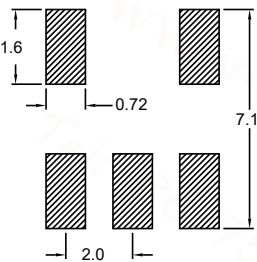
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Coupling	3
Output	5
Ground	2
External 50 Ω	4

Features

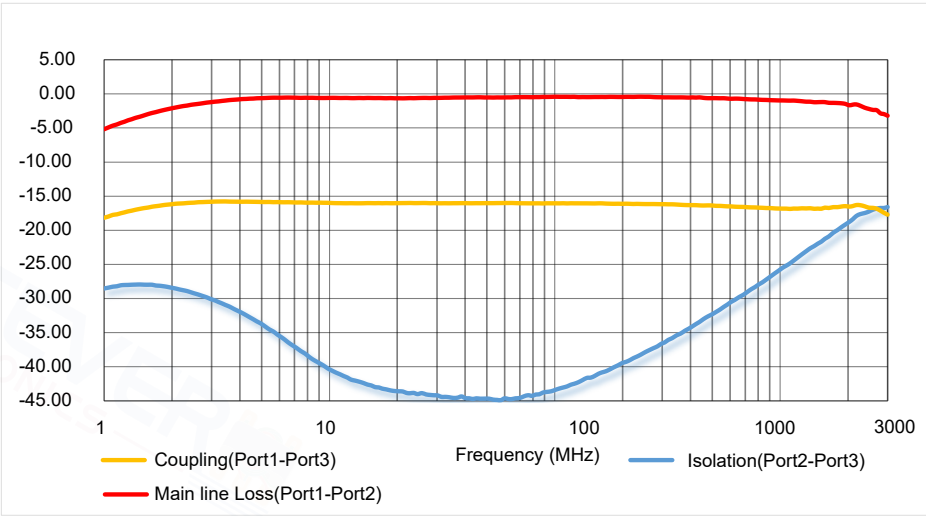
- RF Power, 0.25W MAX
- DC Current, 30mA MAX
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free

Applications

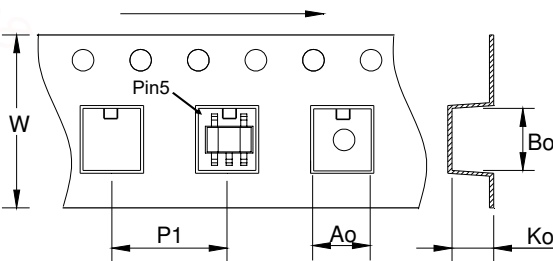
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-Pin3)	5-1000MHz	dB	15.0	16.0	17.0
Main line Loss(Pin1-Pin5)	5-1000MHz	dB	—	1.2	1.8
Isolation(Pin3-5)	5-1000MHz	dB	20.0	25.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1000
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	6.50
Bo	mm	7.00
Ko	mm	4.60