

RF Directional Coupler

ECJ1401-C172082

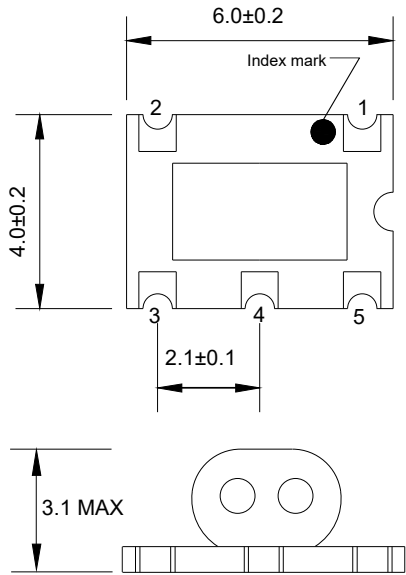
2025-08-28 Rev. 1



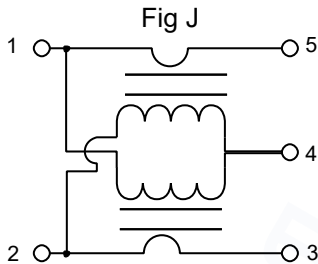
75Ω 14dB Directional Coupler

5-3250MHz

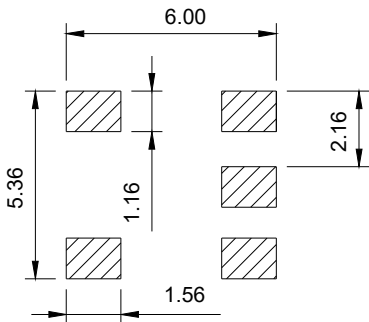
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	3
Coupling	5
Output	2
Ground	4
External 75 Ω	1

Features

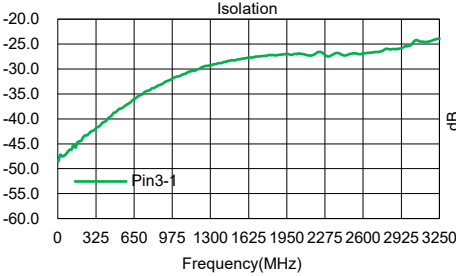
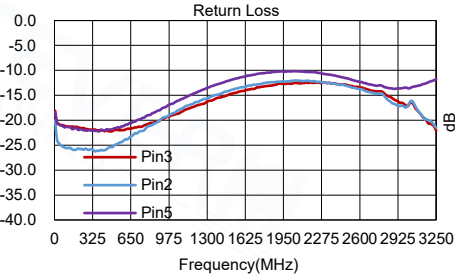
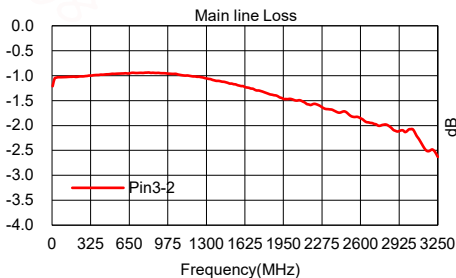
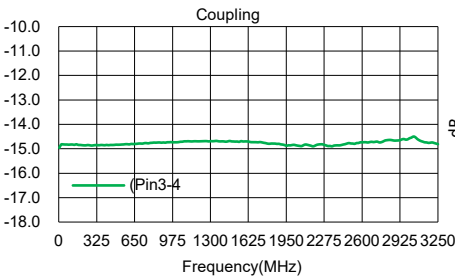
- Input Power:0.5W Max
- DC Current:500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

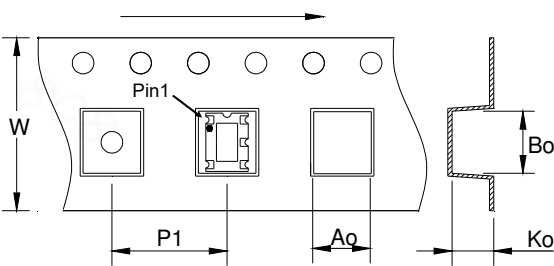
- For Dcsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

Electrical Specifications:TA=25 °C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin3-4)	5-3250MHz	dB	13.0	14.5	15.5
Main line Loss(Pin3-2)	5-3250MHz	dB	—	2.0	3.6
Input Return Loss(Pin3)	5-3250MHz	dB	10.0	17.0	—
Coupling Return Loss(Pin5)	5-3250MHz	dB	10.0	14.0	—
Output Return Loss(Pin2)	5-3250MHz	dB	11.0	15.0	—
Isolation(Pin3-1)	5-3250MHz	dB	16.0	22.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	8.00
Ao	mm	4.60
Bo	mm	6.60
Ko	mm	3.20