

RF Directional Coupler

ECJ0601-A001081

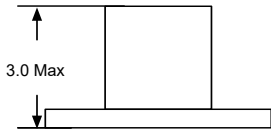
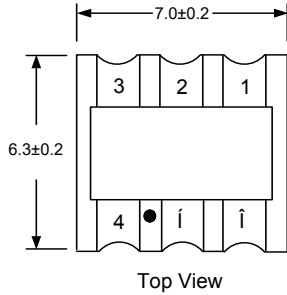
2020-05-11 Rev. 0



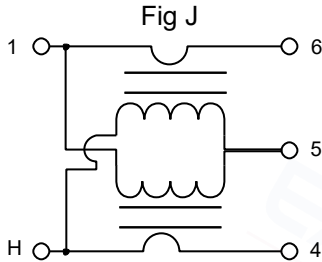
75Ω 6dB Directional Coupler

5-1250MHz

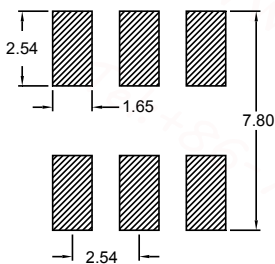
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	4
Coupling	6
Output	3
Ground	5
External 75 Ω	1

Features

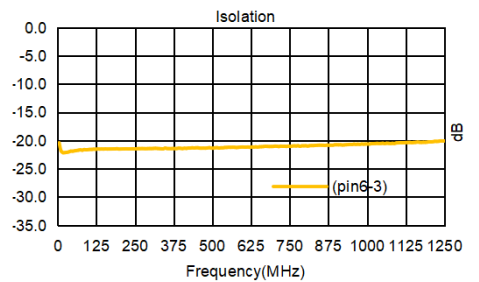
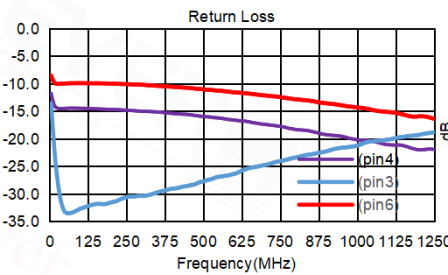
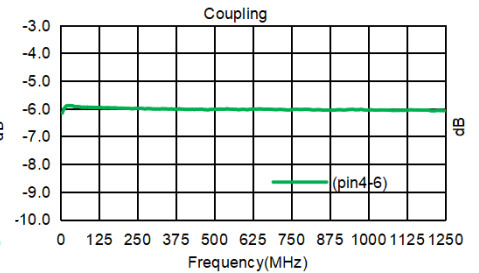
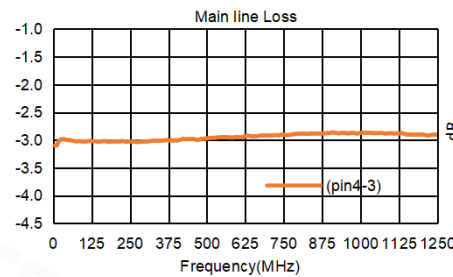
- Input Power:250mW Max
- DC Current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 C to +85 C
- Storage temperature range: -55 C to +100 C

Applications

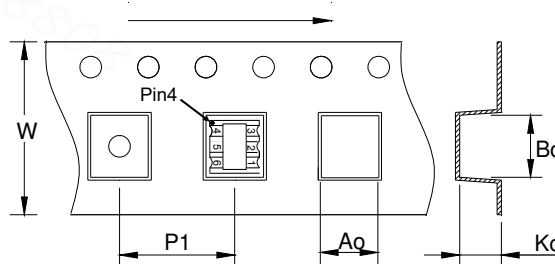
- For Docsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin4-6)	5-1250MHz	dB	5.0	6.0	7.0
Main line Loss(pin4-3)	5-1250MHz	dB	—	3.0	3.8
Input Return Loss(pin 4)	5-1250MHz	dB	14.0	18.0	—
Coupling Return Loss(pin6)	5-1250MHz	dB	10.0	14.0	—
Output Return Loss(pin3)	5-1250MHz	dB	14.0	20.0	—
Isolation(pin6-3)	5-1250MHz	dB	16.0	20.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	7.20
Bo	mm	8.10
Ko	mm	3.80