

RF Directional Coupler

ECJ1101-C009881

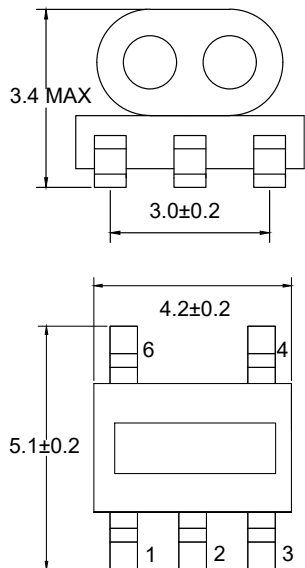
2023-11-06 Rev. 0

75Ω 11dB Directional Coupler

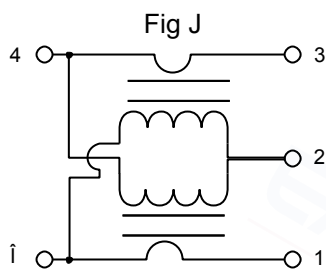
5-1800MHz



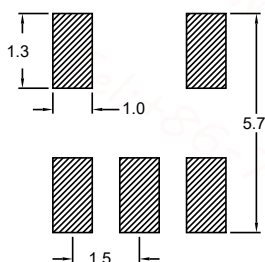
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	6
Coupling	4
Output	1
Ground	2
External 75 Ω	3
NC	5

Features

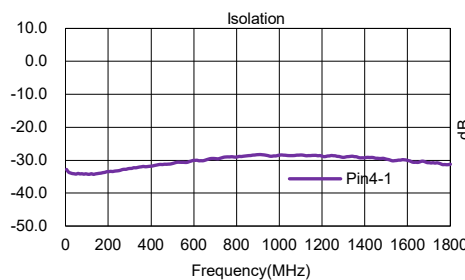
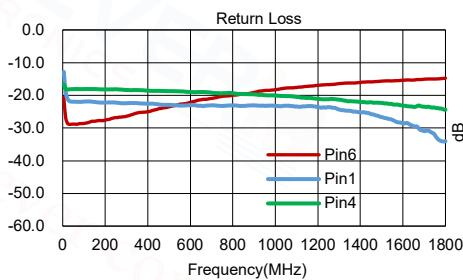
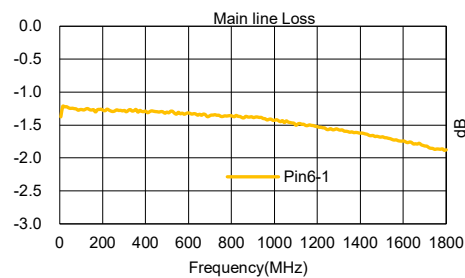
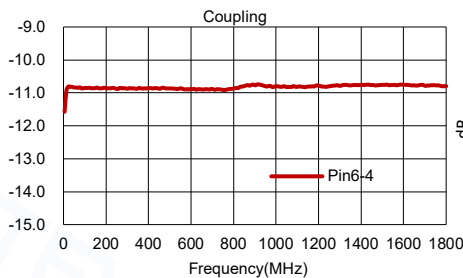
- Input Power:0.25W Max
- DC Current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 C to +85 C
- Storage temperature range: -55 C to +100 C

Applications

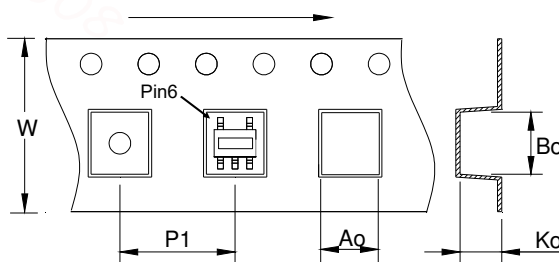
- For Docsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin6-4)	5-1800MHz	dB	10.0	11.0	12.0
Main line Loss(Pin6-1)	5-1800MHz	dB	—	1.8	2.5
Input Return Loss(Pin6)	5-1800MHz	dB	11.0	14.0	—
Output Return Loss(Pin1)	5-1800MHz	dB	16.0	22.0	—
Coupling Return Loss(Pin4)	5-1800MHz	dB	16.0	20.0	—
Isolation(Pin4-1)	5-1800MHz	dB	25.0	30.0	—



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	4.50
Bo	mm	5.70
Ko	mm	3.60