

RF Directional Coupler

ECJ0801-B091971

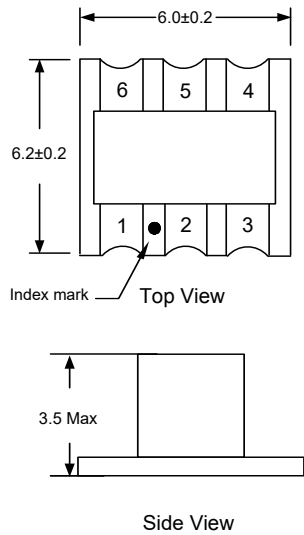
2024-11-13 Rev. 0



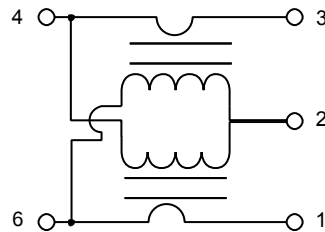
75Ω 8.5dB Directional Coupler

5-1800MHz

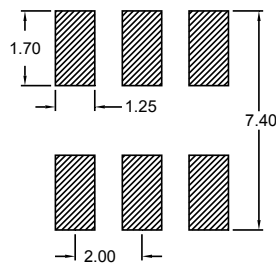
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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

Features

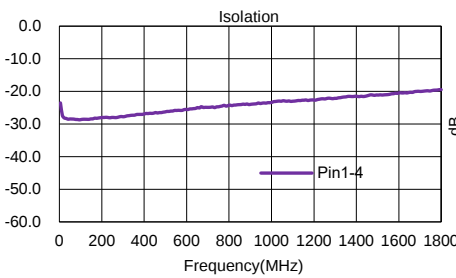
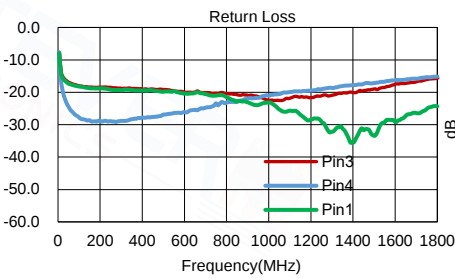
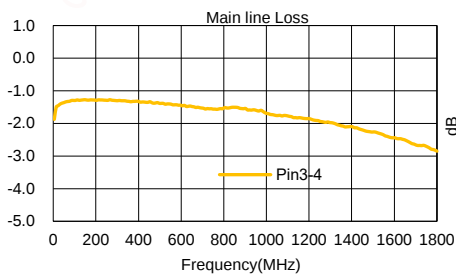
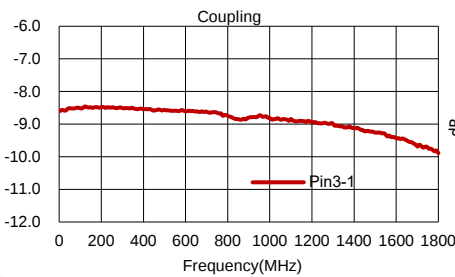
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free
- Input Power:0.25W MAX
- DC Current:30 mA MAX

Applications

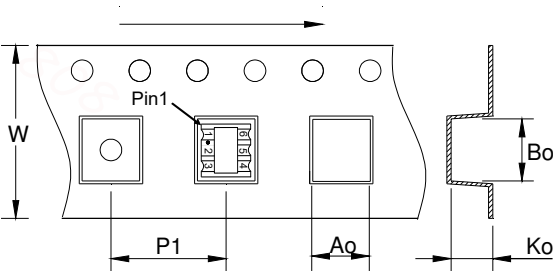
- For Dcsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin3-1)	5-1800MHz	dB	8.0	8.5	10.0
Main line Loss(Pin3-4)	5-1800MHz	dB	—	2.5	3.0
Input Return Loss(Pin3)	5-1800MHz	dB	14.0	16.0	—
Output Return Loss(Pin4)	5-1800MHz	dB	14.0	16.0	—
Coupling Return Loss(Pin1)	5-1800MHz	dB	16.0	18.0	—
Isolation(Pin1-4)	5-1800MHz	dB	17.0	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