

# RF Directional Coupler

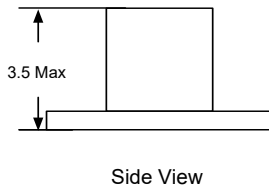
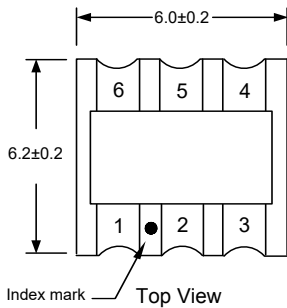
## AWJ0801-B091971



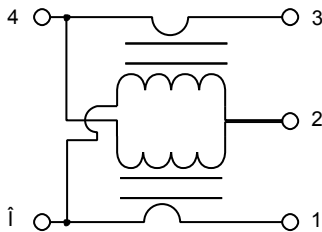
75Ω 8.5dB Directional Coupler

5-1800MHz

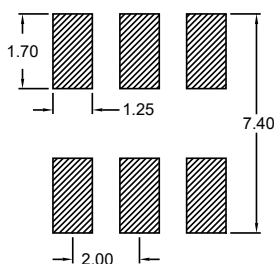
### Outline Drawing(mm)



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

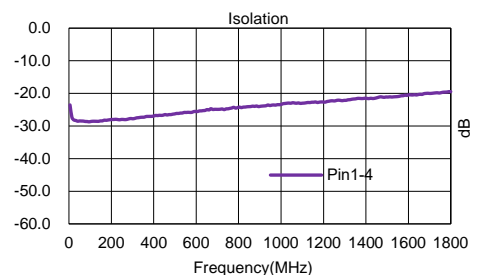
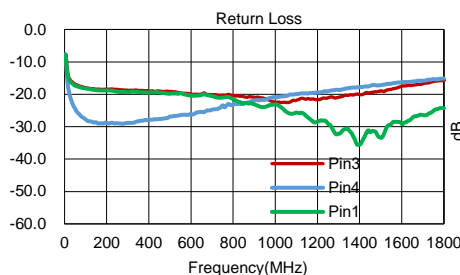
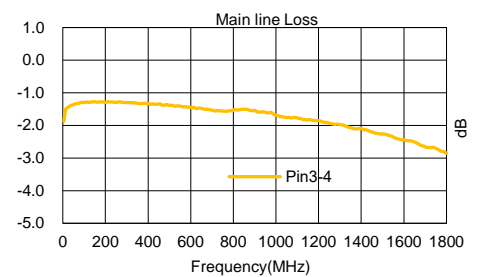
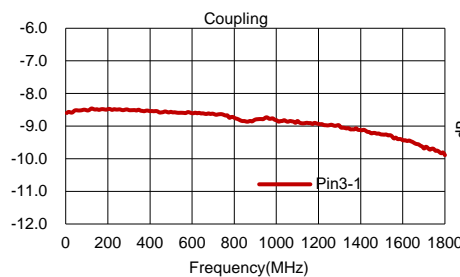


### Applications

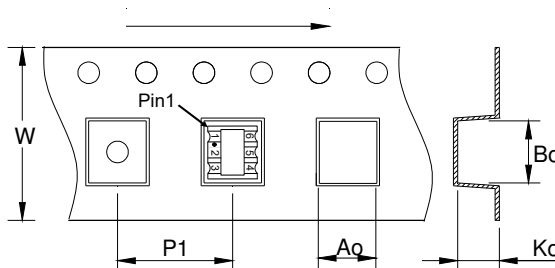
- For Docsis 3.0&4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin3-1)	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

