

# RF Directional Coupler

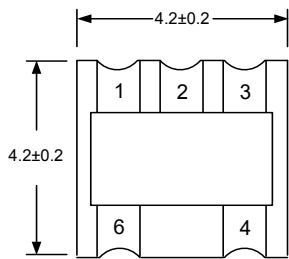
## AWJ1301-D018331



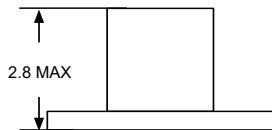
75Ω 13dB Directional Coupler

5-1250MHz

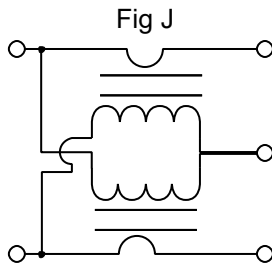
### Outline Drawing(mm)



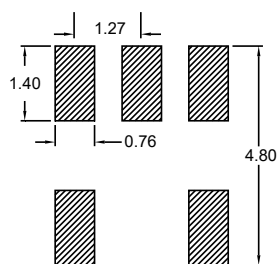
Top View



### Electrical structure



### Recommended layout(mm)

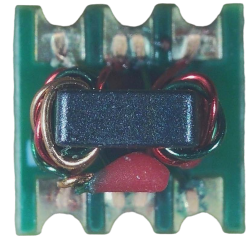


### Pin Connections

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

### 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: 250 mW
- DC Current: 30 mA

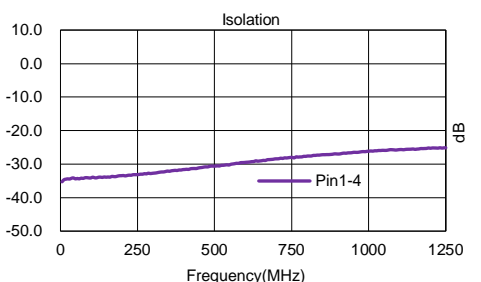
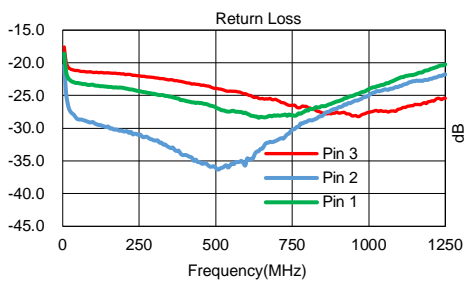
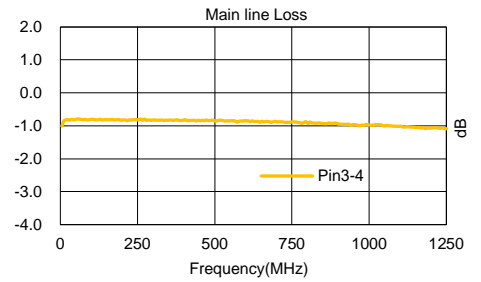
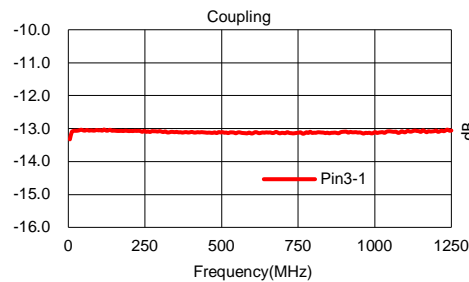


### Applications

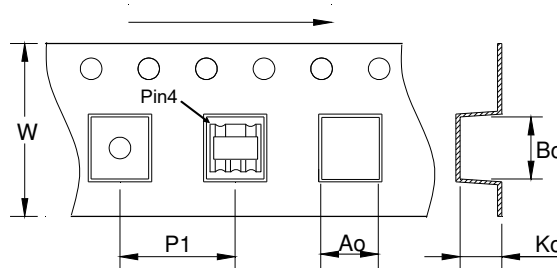
- For Docsis 3.0 & 4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin3-1)	5-1250MHz	dB	12.2	13.0	13.8
Main line Loss(Pin3-4)	5-1250MHz	dB	—	1.0	1.5
Input Return Loss(Pin3)	5-1250MHz	dB	16.0	22.0	—
Coupling Return Loss(Pin1)	5-1250MHz	dB	16.0	22.0	—
Output Return Loss(Pin2)	5-1250MHz	dB	16.0	22.0	—
Isolation(Pin1-4)	5-1250MHz	dB	18.0	26.0	—



### 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	4.80
Bo	mm	4.80
Ko	mm	3.50

