

# RF Directional Coupler

## B009-617PT-1101-B016

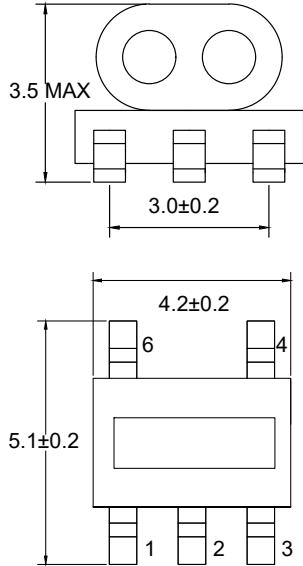
202 -10-26 Rev. 0

75Ω 11dB Directional Coupler

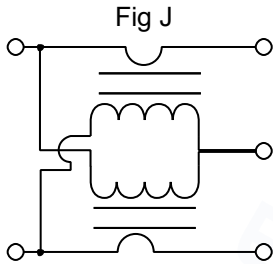
5-1250MHz



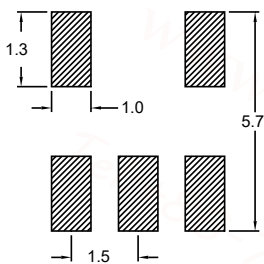
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
Isolation	4

### Features

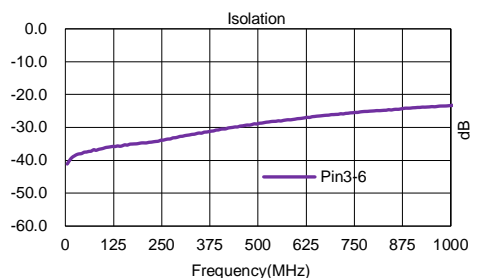
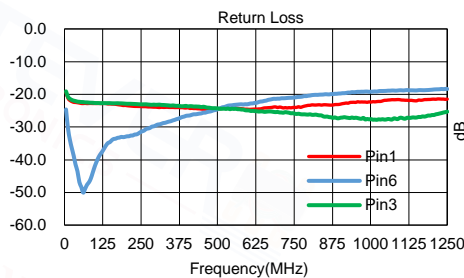
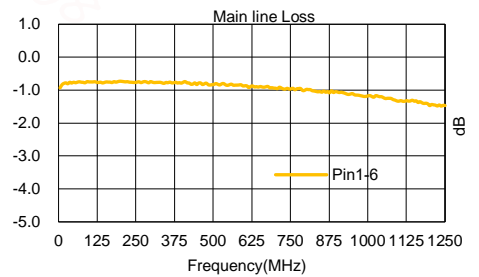
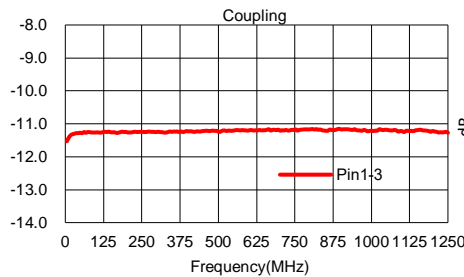
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power:250 mW Max
- DC Current:30 mA Max

### Applications

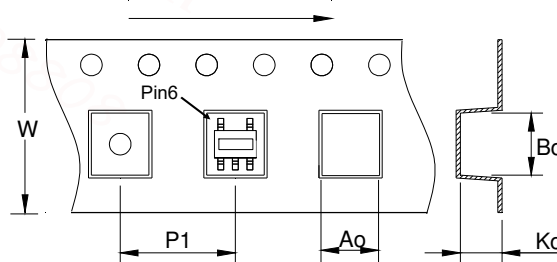
- For Docsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Ūā 1Ē)	5-1250MHz	dB	10.2	11.0	11.8
Main line Loss(Ūā 1Ē)	5-1250MHz	dB	—	1.5	2.2
Input Return Loss(Ūā 1)	5-1250MHz	dB	16.0	22.0	—
Output Return Loss(Ūā 6)	5-1250MHz	dB	16.0	20.0	—
Coupling Return Loss(Ūā 3)	5-1250MHz	dB	16.0	22.0	—
Isolation(Ūā 4Ē)	5-1250MHz	dB	18.0	25.0	—



### 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