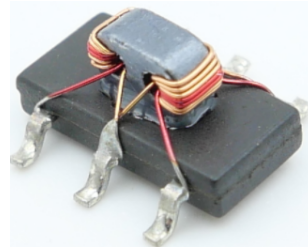


# RF Directional Coupler

## ECJ1001-B005334

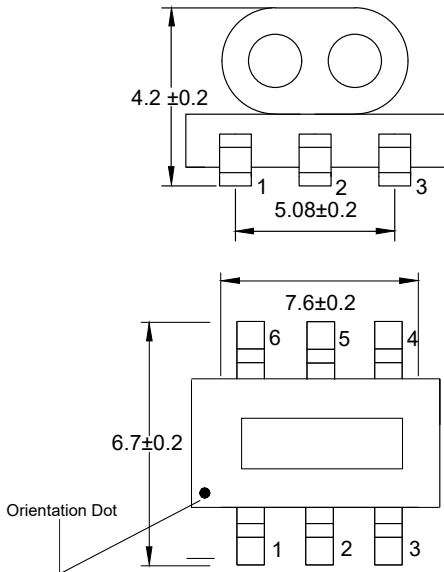
2022-10-12 Rev. 0



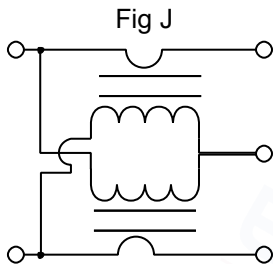
75Ω 10.5dB Directional Coupler

5-1250MHz

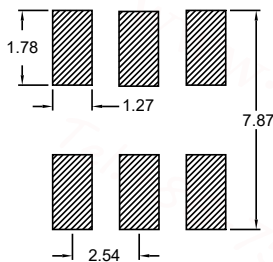
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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

### Features

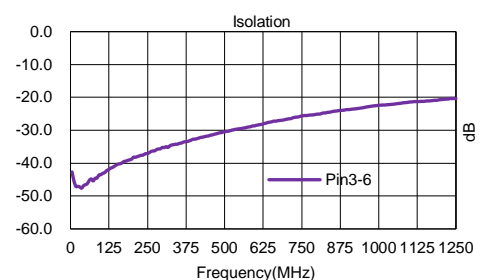
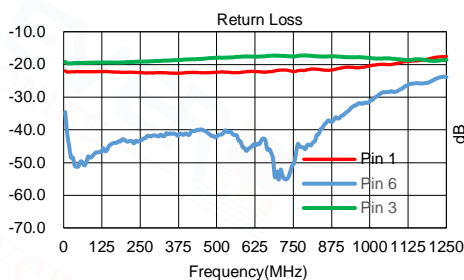
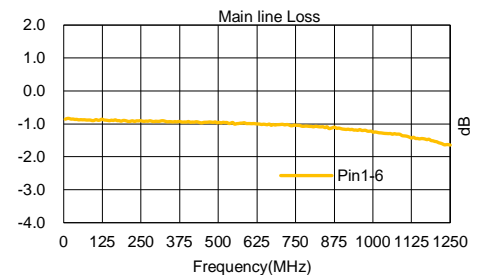
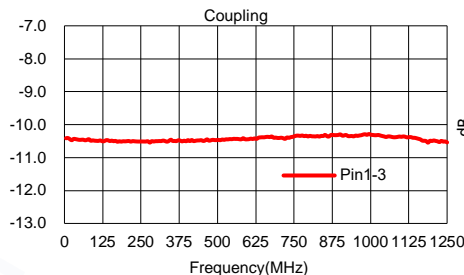
- Input Power: 1W Max
- DC Current: 250 mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

### Applications

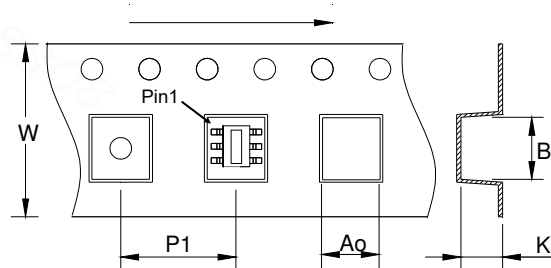
- For Docsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-1250MHz	dB	10.0	10.5	11.0
Main line Loss(Pin1-6)	5-1250MHz	dB	—	1.2	1.6
Input Return Loss(Pin1)	5-1250MHz	dB	16.0	20.0	—
Output Return Loss(Pin6)	5-1250MHz	dB	18.0	25.0	—
Coupling Return Loss(Pin3)	5-1250MHz	dB	14.0	18.0	—
Isolation(Pin3-6)	5-1250MHz	dB	18.0	22.0	—



### Carrier Tape Orientation



### Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1000
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	7.00
Bo	mm	8.00
Ko	mm	5.30