

# RF Directional Coupler

## ECJ1201-D001296

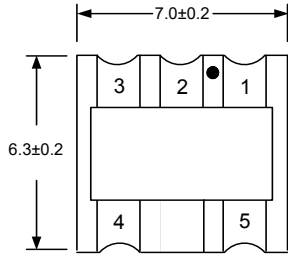
2022-05-18 Rev. 1



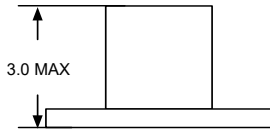
75Ω 12dB Directional Coupler

5-1250MHz

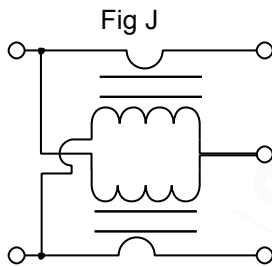
### Outline Drawing(mm)



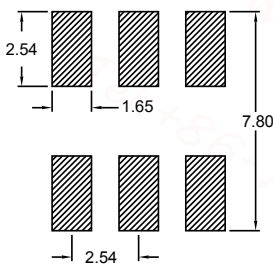
Top View



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	1
Coupling	3
Output	5
Ground	2
Isolation	4

### Features

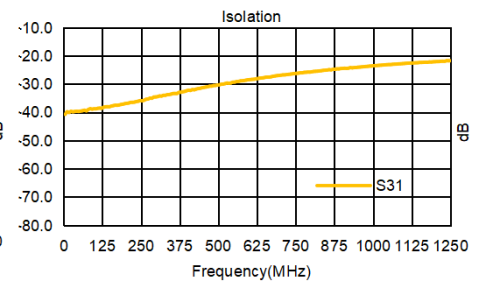
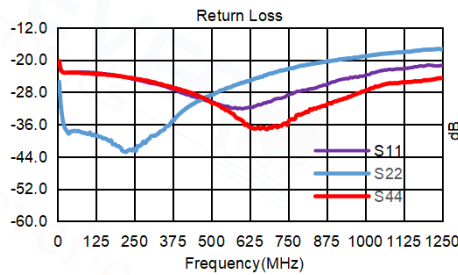
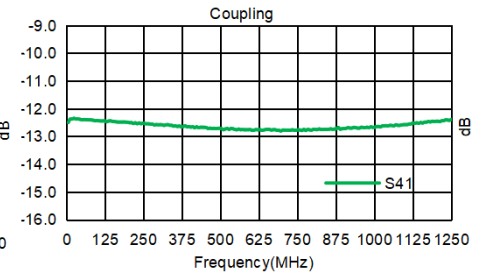
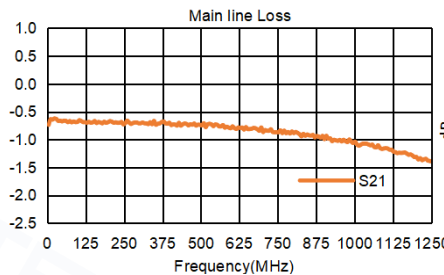
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power:2.0W Max
- DC Current:500mA Max

### Applications

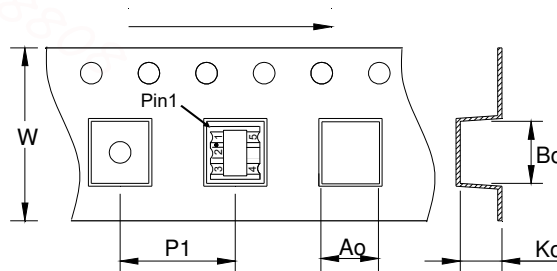
- For Doccis 3.0 & 4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin1-3)	5-1250MHz	dB	11.0	12.0	13.0
Main line Loss(pin1-5)	5-1250MHz	dB	—	1.0	2.0
Input Return Loss(pin 1)	5-1250MHz	dB	16.0	20.0	—
Coupling Return Loss(pin3)	5-1250MHz	dB	16.0	20.0	—
Output Return Loss(pin5)	5-1250MHz	dB	16.0	18.0	—
Isolation(pin1-4)	5-1250MHz	dB	18.0	30.0	—



### Carrier Tape Orientation



### Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	7.20
Bo	mm	8.10
Ko	mm	3.80