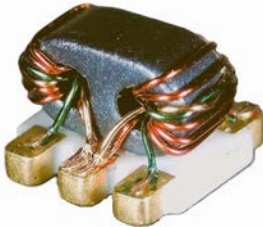


RF Directional Coupler

ECJ1001-B013081

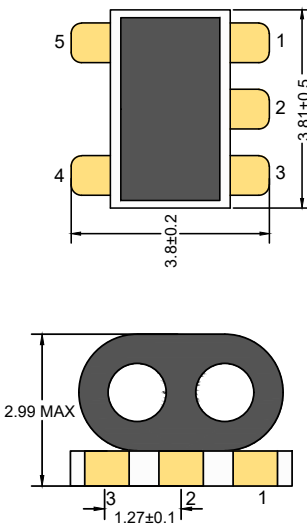
2025-07-21 Rev. 1



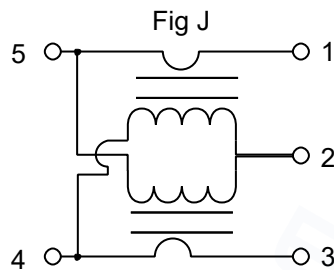
75Ω 10dB Directional Coupler

5-1000MHz

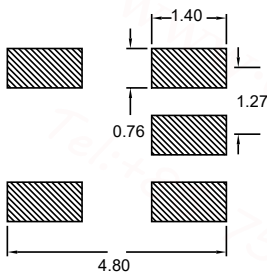
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	3
Coupling	1
Output	4
Ground	2
External 75 Ohms	5

Features

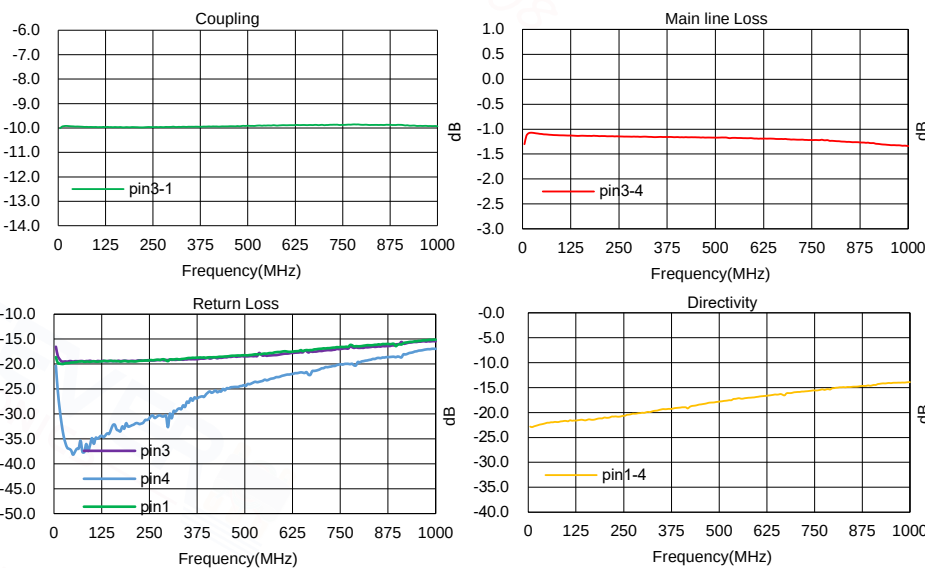
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free
- Input Power: 0.25W MAX
- DC Current: 30mA MAX

Applications

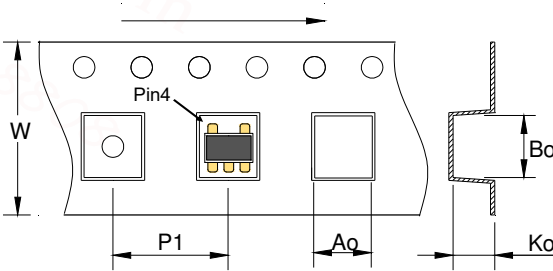
- For Docsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

Electrical Specifications:TA=25℃, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin3-1)	5-1000MHz	dB	9.0	10.0	11.0
Main line Loss(pin3-4)	5-1000MHz	dB	—	1.4	1.8
Input Return Loss(pin3)	5-1000MHz	dB	11.0	16.0	—
Coupling Return Loss(pin1)	5-1000MHz	dB	11.0	16.0	—
Output Return Loss(pin4)	5-1000MHz	dB	11.0	18.0	—
Directivity(pin1-4)	5-1000MHz	dB	10.0	15.0	—



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	4.50
Ko	mm	3.20

