

RF Directional Coupler

ECJ0701-B001534

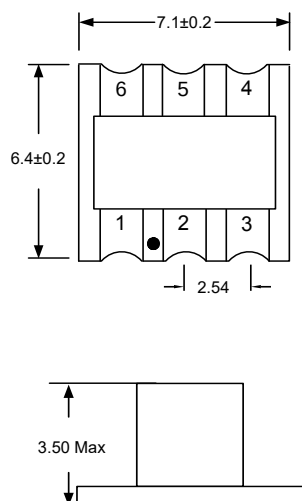
2026-08-10 Rev. 1



75Ω 7.5dB Directional Coupler

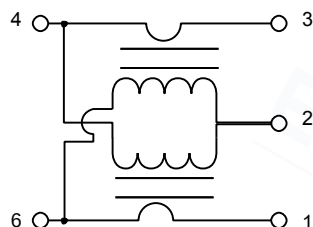
5-1800MHz

Outline Drawing(mm)

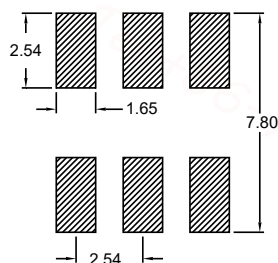


Electrical Structure

Fig J



Recommended Layout(mm)



Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
External 90Ω	4
NC	5

Features

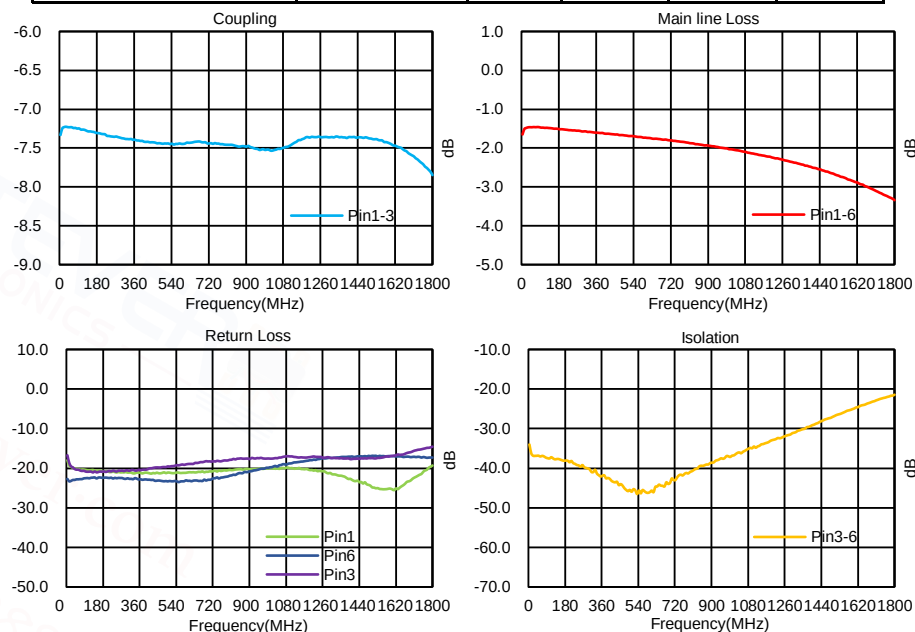
- Input Power: 2W Max
- DC Current: 500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

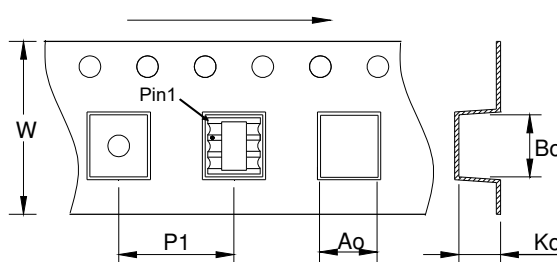
- For Docsis 3.0&4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-1225MHz 1225-1800MHz	dB	7.0 7.0	7.5 7.8	8.0 8.25
Main line Loss(Pin1-6)	5-700MHz 700-1225MHz 1225-1800MHz	dB	—	1.5 2.0 3.0	1.9 2.4 3.7
Isolation(Pin3-6)	5-100MHz 100-834MHz 834-1225MHz 1225-1800MHz	dB	28.0 38.0 25.0 21.0	35.0 43.0 30.0 25.0	—
Input Return Loss(Pin1)	5-1225MHz 1225-1800MHz	dB	17.0 15.0	22.0 18.0	—
Output Return Loss(Pin6)	5-700MHz 700-1225MHz 1225-1800MHz	dB	17.0 13.0 11.0	20.0 16.0 14.0	—
Coupling Return Loss(Pin3)	5-700MHz 700-1225MHz 1225-1800MHz	dB	15.0 13.0 11.0	18.0 16.0 14.0	—



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	6.80
Bo	mm	7.80
Ko	mm	3.60