

RF Directional Coupler

ECJ1701-C143708

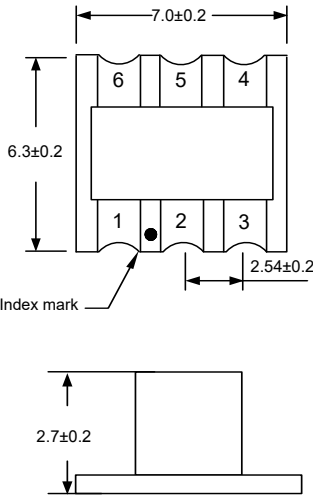
2026-08-15 Rev. 0



75Ω 17dB Directional Coupler

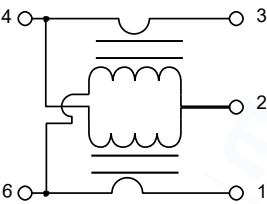
5-1800MHz

Outline Drawing(mm)

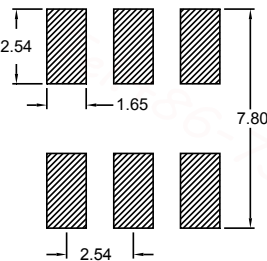


Electrical Structure

Fig J



Recommended Layout(mm)



Pin Connections

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

Features

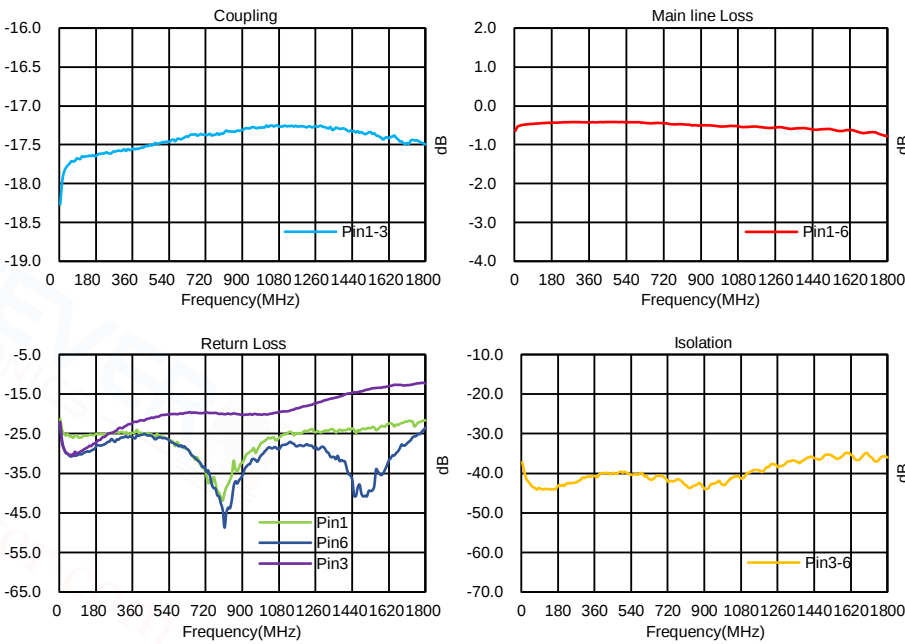
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free
- Input Power:2W
- DC Current:30 mA

Applications

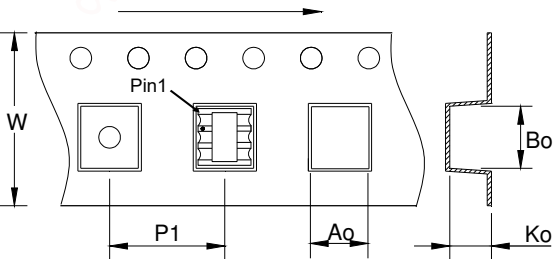
- For Dccsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-850MHz	dB	16.5	17.5	18.5
	850-1800MHz		16.0	17.5	19.0
Main line Loss(Pin1-6)	5-1800MHz	dB	—	0.7	1.3
Input Return Loss(Pin1)	5-50MHz	dB	19.0	21.0	—
	50-850MHz		20.0	22.0	
	850-1800MHz		12.0	17.0	
Output Return Loss(Pin6)	5-50MHz	dB	21.0	25.0	—
	50-850MHz		22.0	28.0	
	850-1800MHz		14.0	20.0	
Coupling Return Loss(Pin3)	5-50MHz	dB	20.0	25.0	—
	50-850MHz		11.0	17.0	
	850-1800MHz		10.0	14.0	
Isolation(Pin3-6)	5-850MHz	dB	38.0	41.0	—
	850-1800MHz		24.0	31.0	



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