

RF Directional Coupler

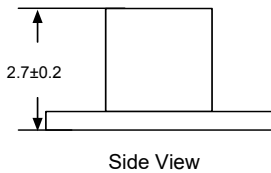
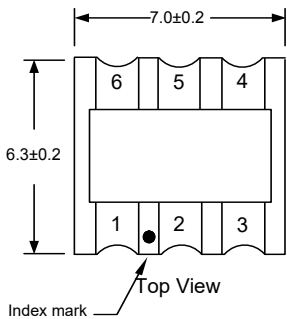
AWJ1701-C001971



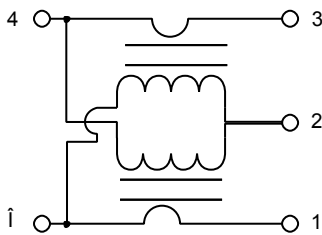
75Ω 17.5dB Directional Coupler

5-2000MHz

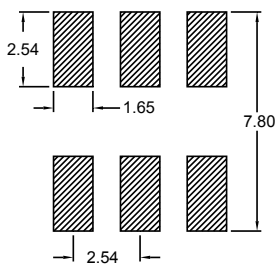
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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

Features

- 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: 0.25W MAX
- DC Current: 30 mA MAX

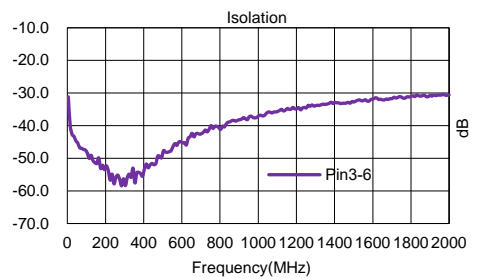
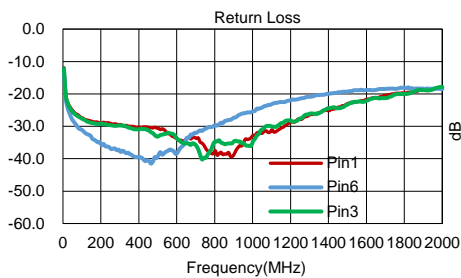
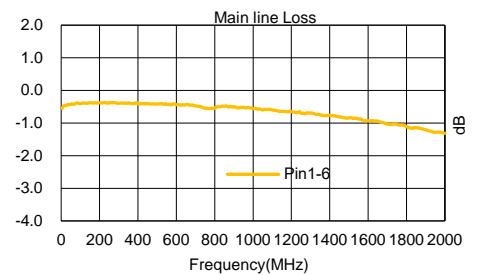
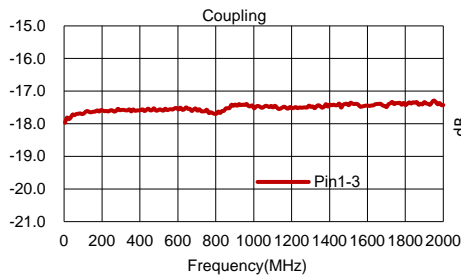
Applications

- 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.

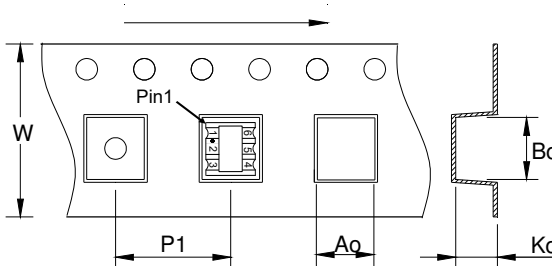


Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-2000MHz	dB	16.8	17.5	18.0
Main line Loss(Pin1-6)	5-2000MHz	dB	—	1.3	1.8
Input Return Loss(Pin1)	5-2000MHz	dB	14.0	18.0	—
Output Return Loss(Pin6)	5-2000MHz	dB	16.0	18.0	—
Coupling Return Loss(Pin3)	5-2000MHz	dB	16.0	18.0	—
Isolation(Pin3-6)	5-2000MHz	dB	20.0	30.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	7.20
Bo	mm	8.10
Ko	mm	3.80



Advanced Wire Coil Technology LLC

Web: www.awcoil.com E-mail: Sales@awcoil.com Phone: (321)-321-6168 Florida, USA