

RF Directional Coupler

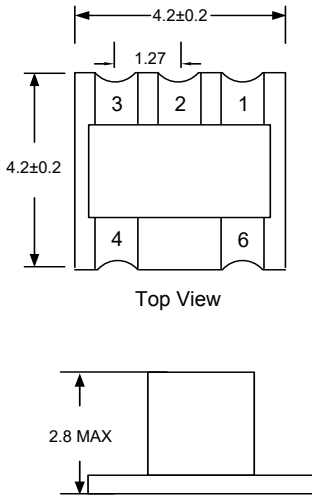
AWJ2001-C018357



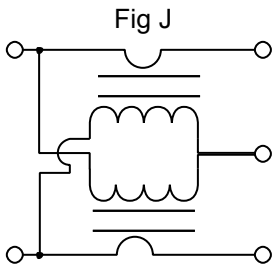
75Ω 20dB Directional Coupler

5-1200MHz

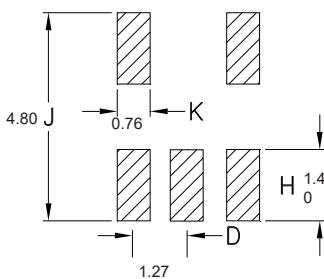
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

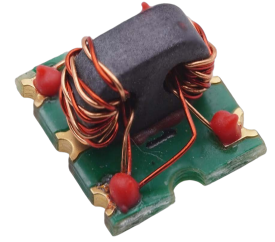
Input	1
Coupling	3
Output	6
Ground	2
Isolation	4

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: 50mW Max
- DC Current: 5mA Max

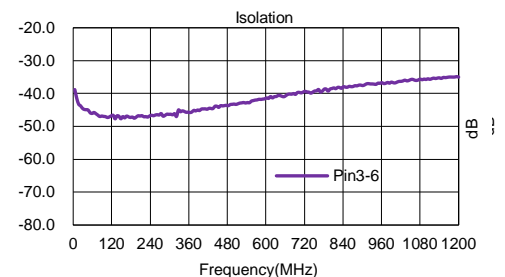
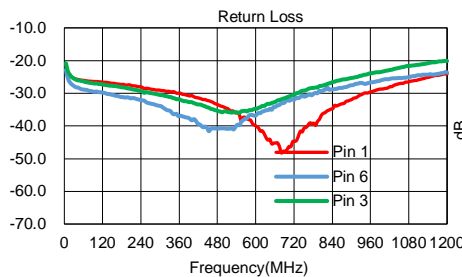
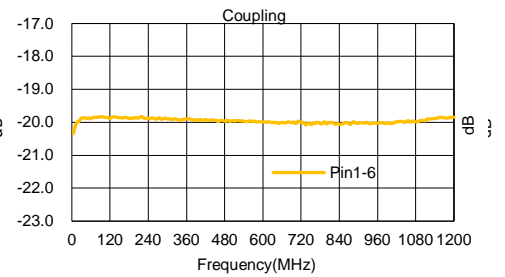
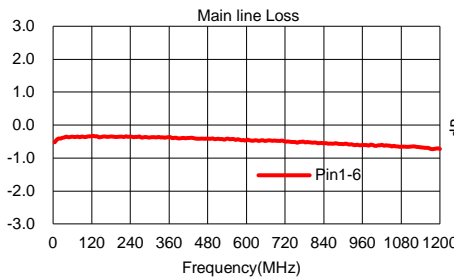
Applications

- For Docsis 3.0 & 3.1 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.

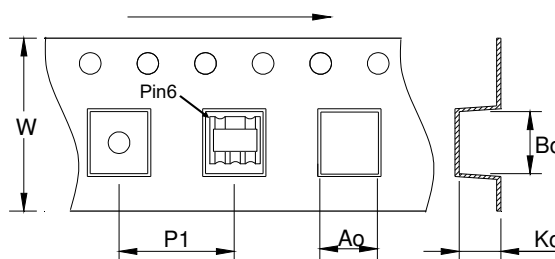


Electrical Specifications: TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling (U ₃ 1 ₆)	5-1200MHz	dB	19.2	20.0	20.5
Main line Loss (U ₃ 1 ₆)	5-1200MHz	dB	—	0.5	0.9
Input Return Loss (U ₃ 1)	5-1200MHz	dB	16.0	25.0	—
Coupling Return Loss (U ₃ 3)	5-1200MHz	dB	16.0	22.0	—
Output Return Loss (U ₃ 6)	5-1200MHz	dB	16.0	22.0	—
Isolation (U ₃ 1 ₄)	5-1200MHz	dB	25.0	35.0	—



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
A ₀	mm	4.50
B ₀	mm	4.50
K ₀	mm	2.80

