

RF Directional Coupler

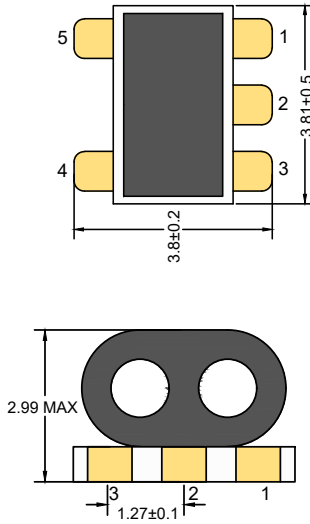
AWJ1001-D013081



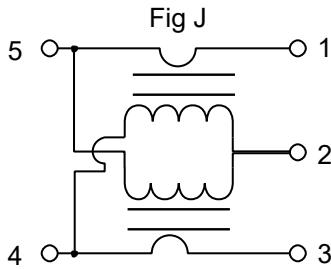
75Ω 10dB Directional Coupler

5-1000MHz

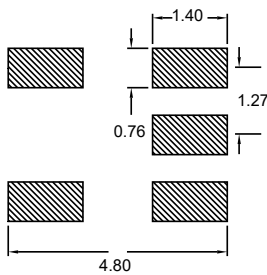
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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

Features

- Operating temperature range: -40°C to +125°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: 30mA MAX

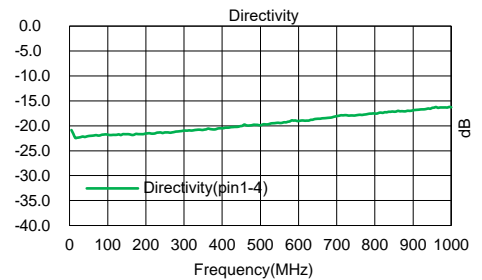
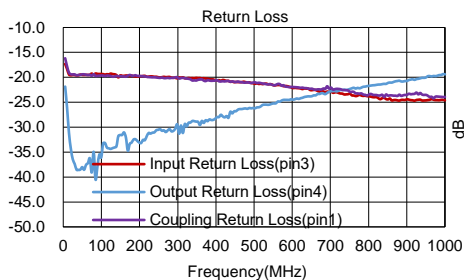
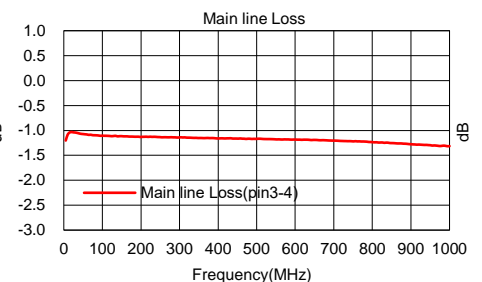
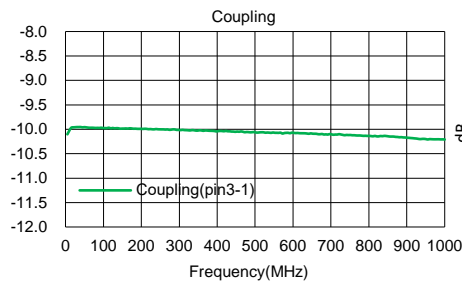


Applications

- 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.

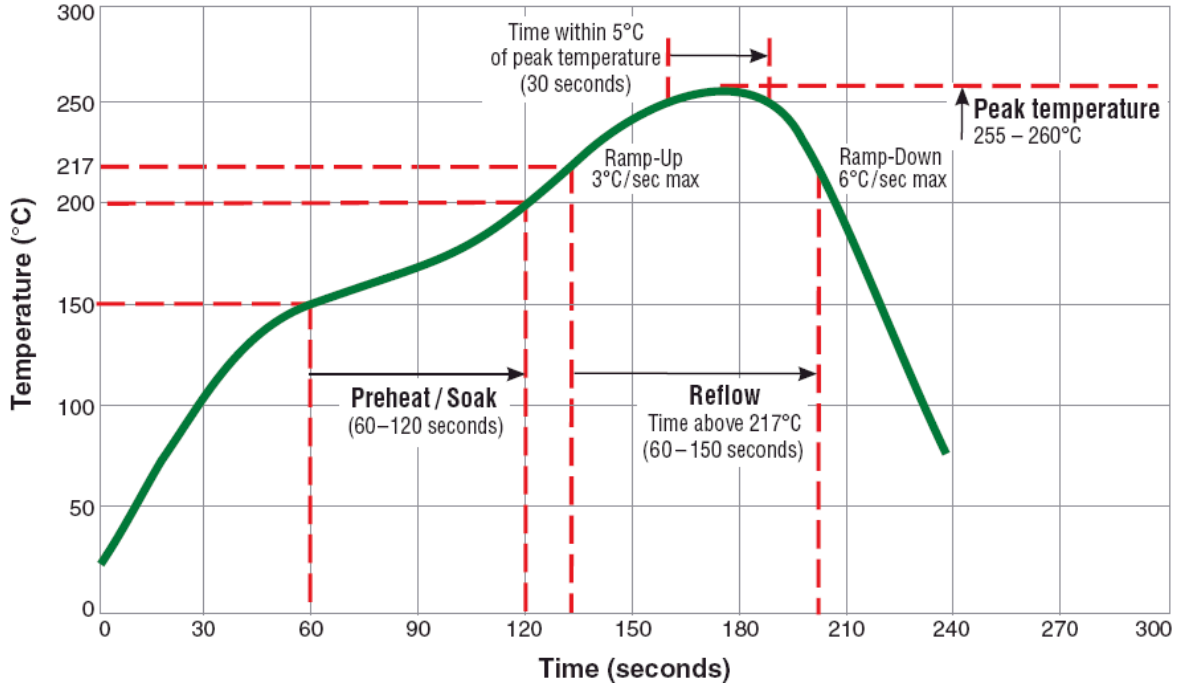
Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin3-1)	5-1000MHz	dB	9.0	10.0	11.0
Main line Loss(pin3-4)	5-50MHz	dB	—	1.4	1.8
	50-500MHz			1.3	1.7
	500-1000MHz			1.4	1.9
Input Return Loss(pin3)	5-700MHz	dB	15.5	17.0	—
	700-1000MHz		12.0	15.0	
Coupling Return Loss(pin1)	5-700MHz	dB	15.5	17.0	—
	700-1000MHz		12.0	15.0	
Output Return Loss(pin4)	5-700MHz	dB	15.5	20.0	—
	700-1000MHz		12.0	16.0	
Directivity(pin1-4)	5-50MHz	dB	19.0	22.0	—
	50-500MHz		13.0	20.0	
	500-1000MHz		6.0	12.0	



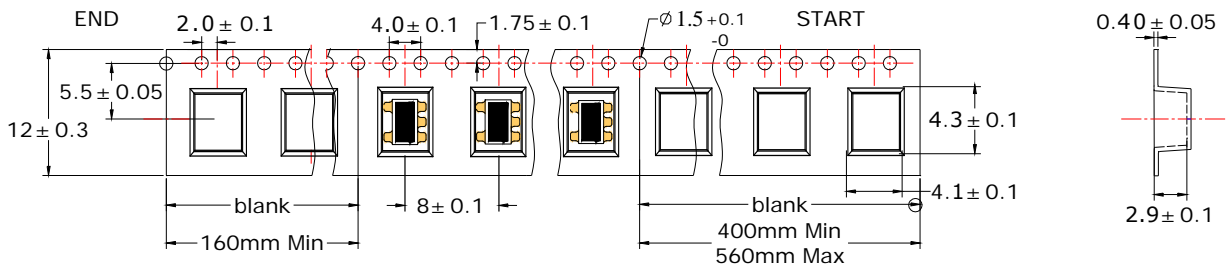
Recommended Soldering Temperature Graph:

Typical RoHS Reflow Profile

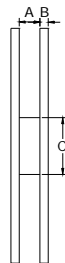
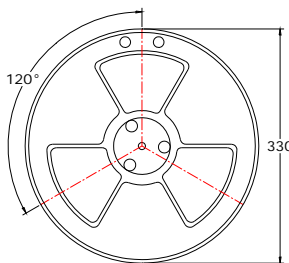


Packing Dimension For Caeier Tape(UNIT:mm):

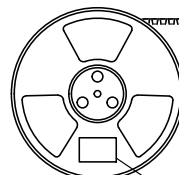
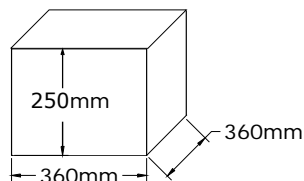
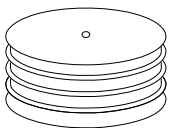
(UNIT : mm)



QUANTITY
2000PCS/Reel
20000PCS/ Big Carton



SPEC	8	12	16	24
DIM A±0.1	8.5	12.5	16.5	24.5
DIM B±0.1	2.3	2.3	2.3	2.3
DIM C±0.1	100	100	100	100



Length of the preceding blank space: 400MM Min
Length of the trailing space: 208MM Min

The label should be stuck on the side without positioning holes.