

RF Directional Coupler

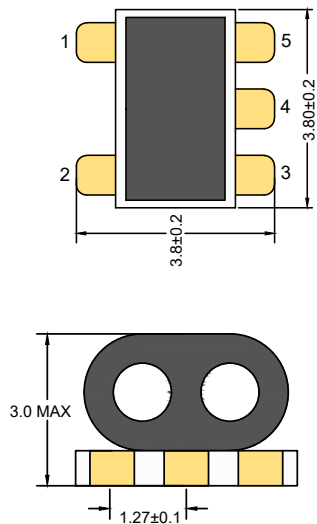
AWJ1301-D013016



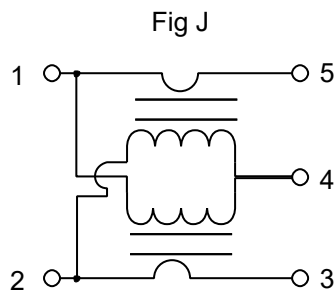
75Ω 13dB Directional Coupler

5-1218MHz

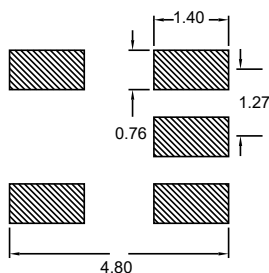
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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

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: 2W MAX
- DC Current: 500mA MAX

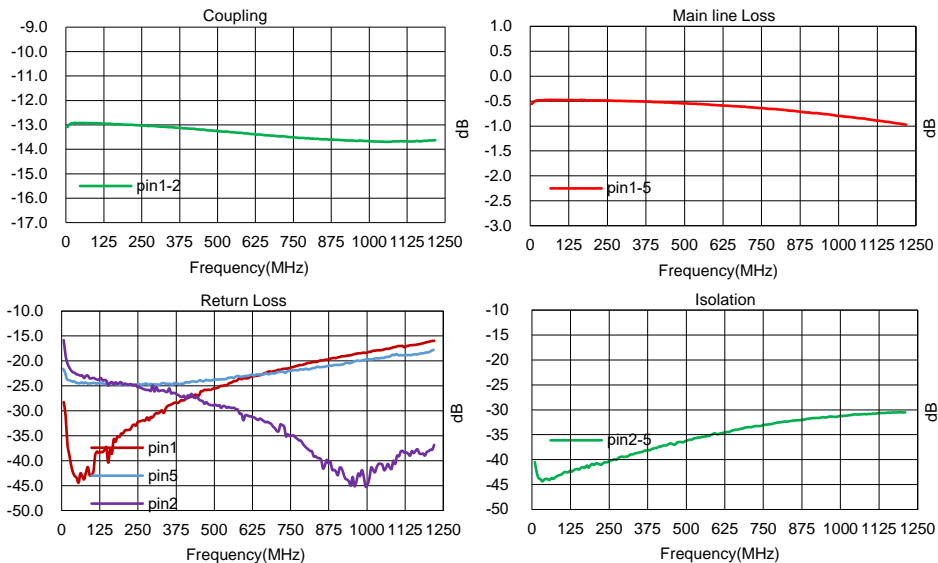
Applications

- 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.



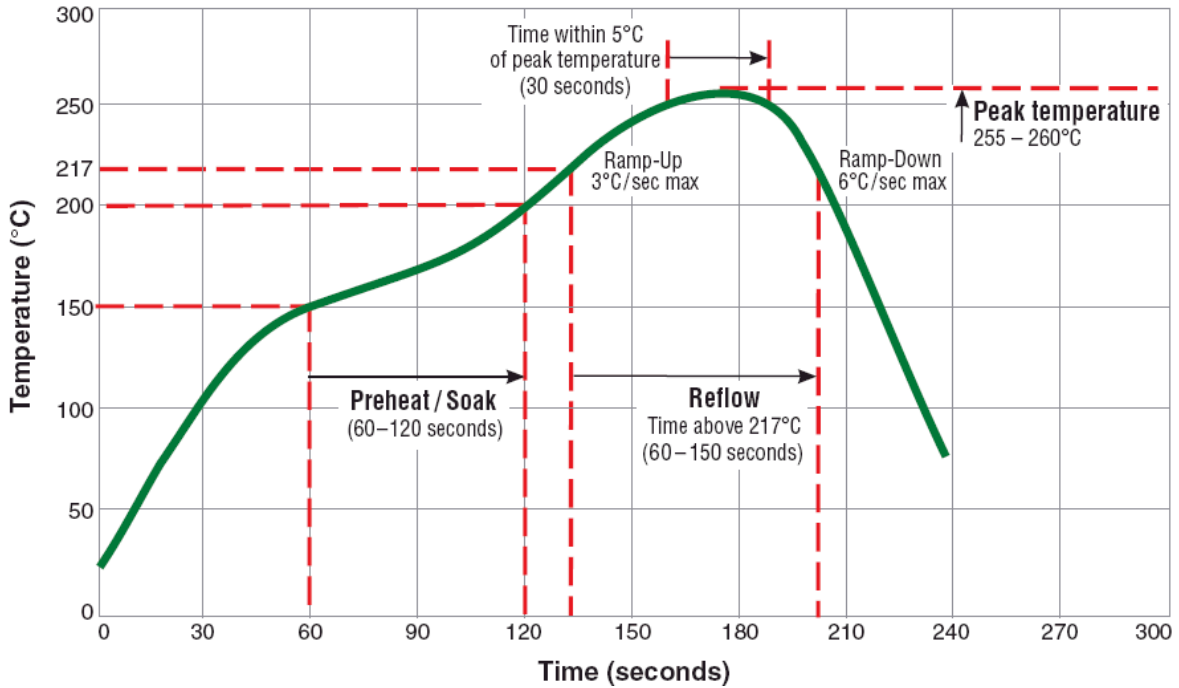
Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin3-1)	5-1218MHz	dB	12.4	13.0	13.6
Main line Loss(pin1-5)	5-700MHz 700-1218MHz	dB	—	0.7 0.8	1.0
Input Return Loss(pin1)	5-700MHz 700-1218MHz	dB	20.0 16.0	26.0 20.0	—
Output Return Loss(pin5)	5-700MHz 700-1218MHz	dB	18.0 16.0	21.0 19.0	—
Coupling Return Loss(pin1)	5-700MHz 700-1218MHz	dB	17.0 16.0	19.0 18.0	—
Isolation (pin2-5)	5-700MHz 700-1218MHz	dB	32.0 27.0	39.0 31.0	—



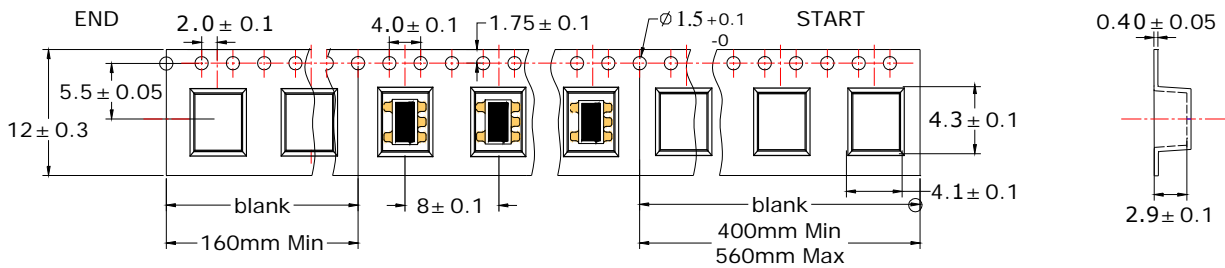
Recommended Soldering Temperature Graph:

Typical RoHS Reflow Profile

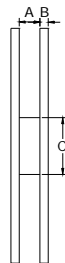
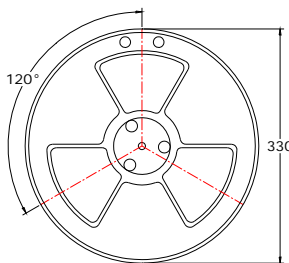


Packging Dimension For Carrier Tape(UNIT:mm):

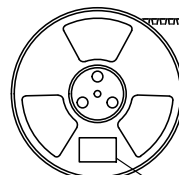
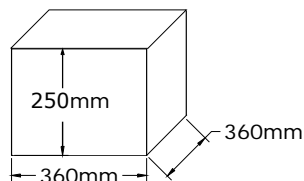
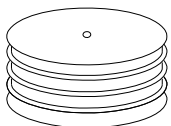
(UNIT : mm)



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.