

RF Directional Coupler

ECJ2001-C018357

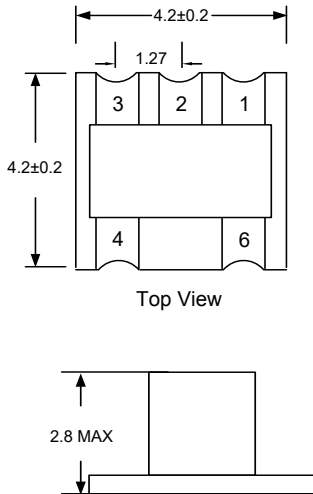
202 -0 -23 Rev. 0

75Ω 20dB Directional Coupler

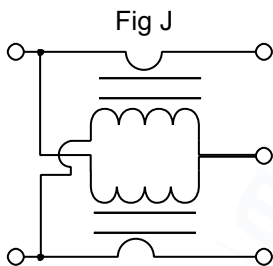
5-1200MHz



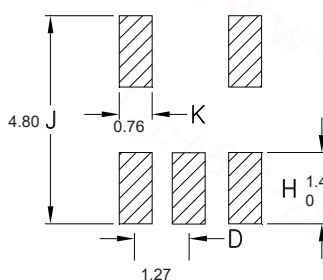
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
Isolation	4

Features

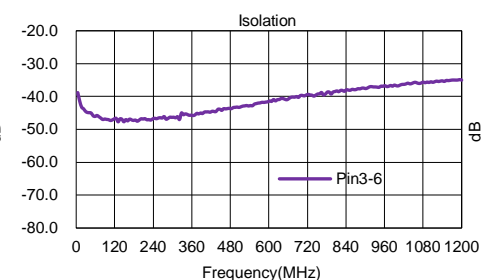
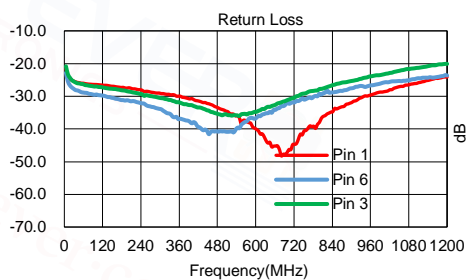
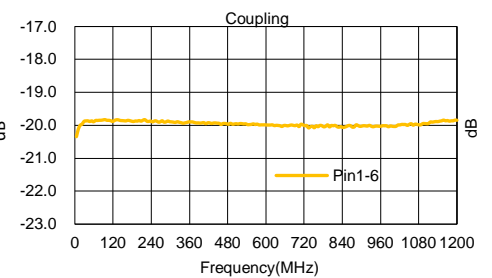
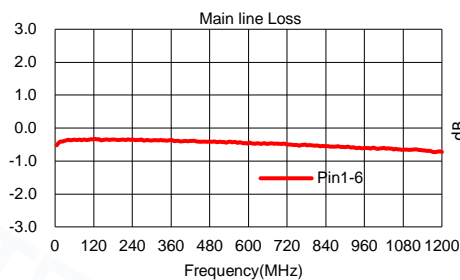
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 50mW Max
- DC Current: 5mA Max

Applications

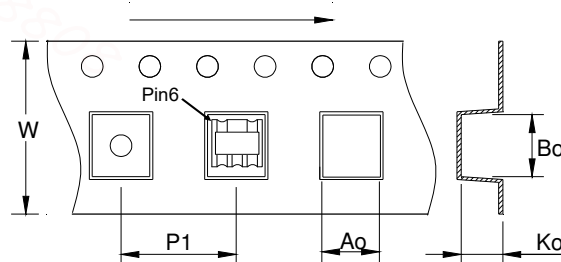
- For Dcsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(U_{a} 1dB)	5-1200MHz	dB	19.2	20.0	20.5
Main line Loss(U_{a} 1dB)	5-1200MHz	dB	—	0.5	0.9
Input Return Loss(U_{a} 1)	5-1200MHz	dB	16.0	25.0	—
Coupling Return Loss(U_{a} 3)	5-1200MHz	dB	16.0	22.0	—
Output Return Loss(U_{a} 6)	5-1200MHz	dB	16.0	22.0	—
Isolation(U_{a} 1dB)	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
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	2.80