

RF Directional Coupler

ECJ1901-C010567

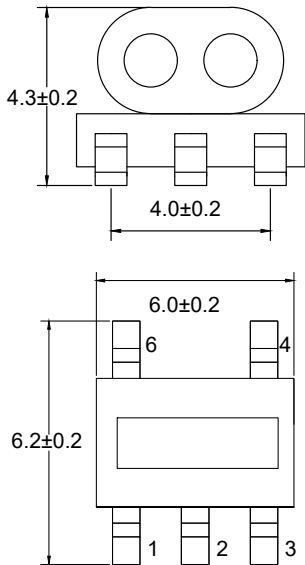
2020-06-04 Rev. 0



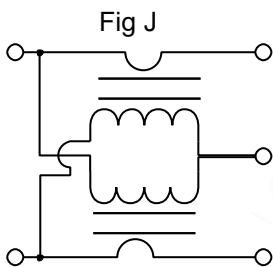
75Ω 19dB Directional Coupler

5-1250MHz

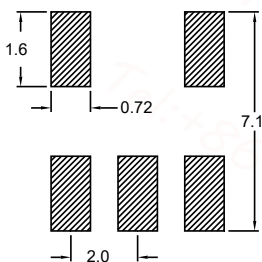
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
Isolation	4

Features

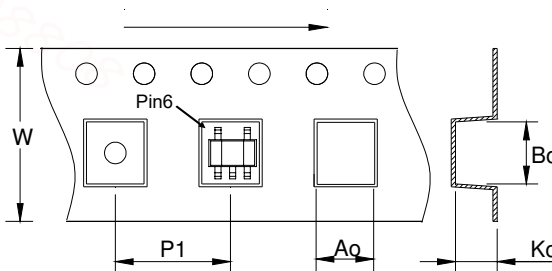
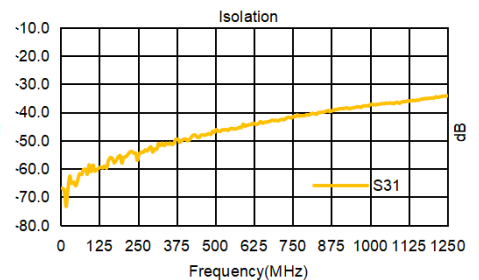
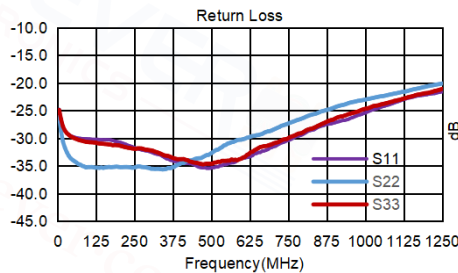
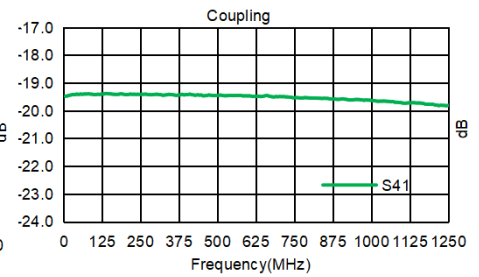
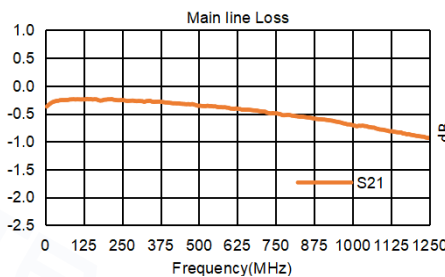
- Input Power:500mW Max
- DC Current:500 mA Max
- 260℃ reflow compatible
- RoHS Compliant and Pb free
- Operating temperature range: - 40℃ to+85℃
- Storage temperature range: - 55℃ to +100℃

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℃, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(pin1-3)	5-1250MHz	dB	18.5	19.5	21.0
Main line Loss(pin1-6)	5-1250MHz	dB	—	0.8	1.5
Input Return Loss(pin 1)	5-1250MHz	dB	16.0	20.0	—
Coupling Return Loss(pin3)	5-1250MHz	dB	16.0	20.0	—
Output Return Loss(pin6)	5-1250MHz	dB	16.0	20.0	—
Isolation(pin1-4)	5-1250MHz	dB	25.0	20.0	—



Parameter	Units	Value
Qty per reel	PCS	1000
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	7.50
Bo	mm	6.50
Ko	mm	4.90