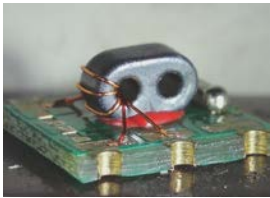


RF Directional Coupler

ECE1801-D033081

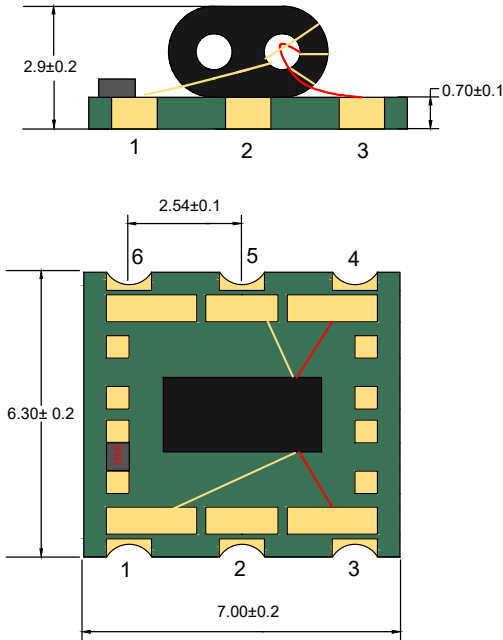
2023-07-20 Rev. 2



75Ω 18dB Directional Coupler

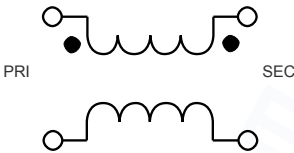
5-1250MHz

Outline Drawing(mm)

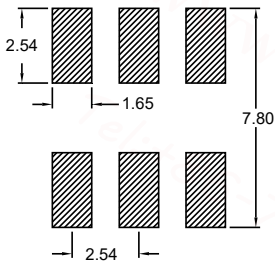


Electrical structure

Fig E



Recommended layout(mm)



Pin Connections

Input	4
Coupling	1
Output	3
Ground	5
Not Used	6, 2

Features

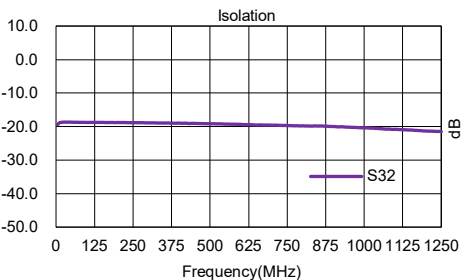
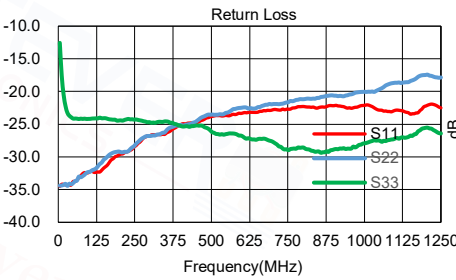
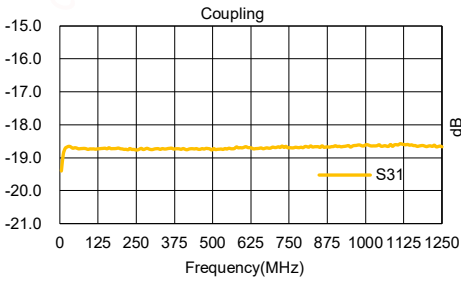
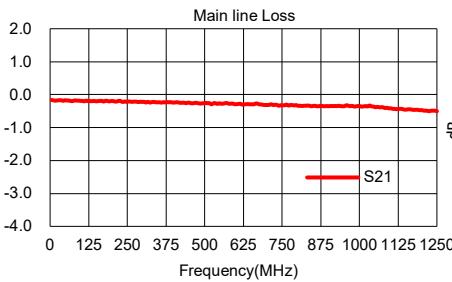
- Input Power:0.25W Max
- DC Current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range:-40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

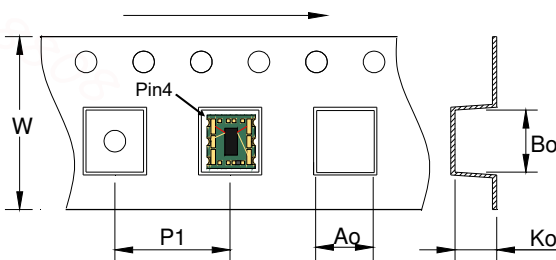
- For Docsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling	5-1250MHz	dB	17.7	18.5	19.3
Main line Loss	5-1250MHz	dB	—	0.2	0.5
Input Return Loss	5-1250MHz	dB	16.0	20.0	—
Coupling Return Loss	5-1250MHz	dB	16.0	25.0	—
Output Return Loss	5-1250MHz	dB	16.0	20.0	—
Isolation	5-1250MHz	dB	16.0	20.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	7.20
Bo	mm	8.10
Ko	mm	3.80