

Directional Coupler

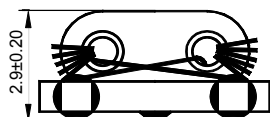
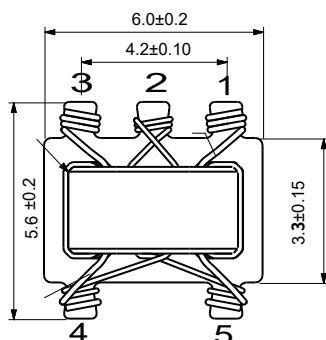
ECJ1401-A032122

2019-11-10 Rev. 0

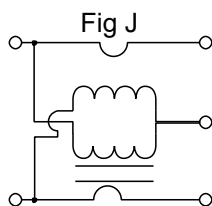
75Ω 14dB Coupler 40-2050 MHz



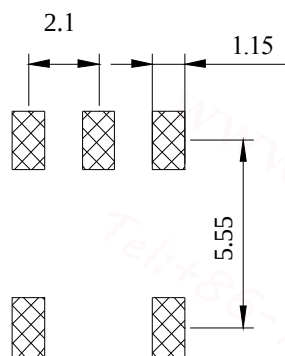
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	4
Output	3
Coupled	5
Ground	2
75Ω Term External	1

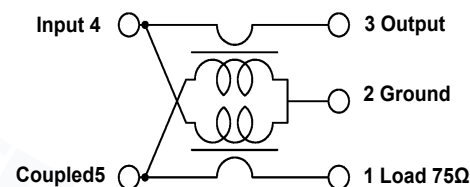
Features

- Excellent Temperature Stability
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible
- Power Input(as a splitter): 1.0W Max
- DC current: 50mA
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

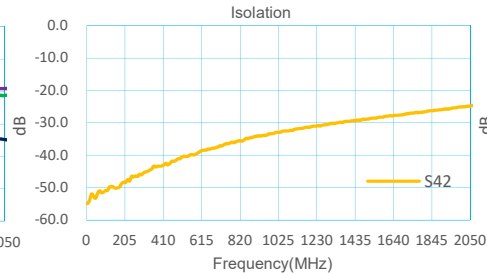
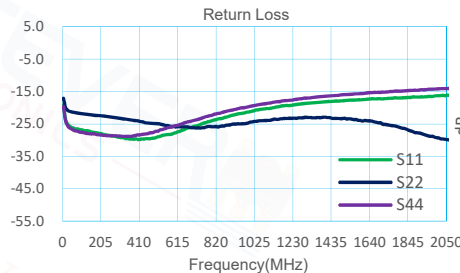
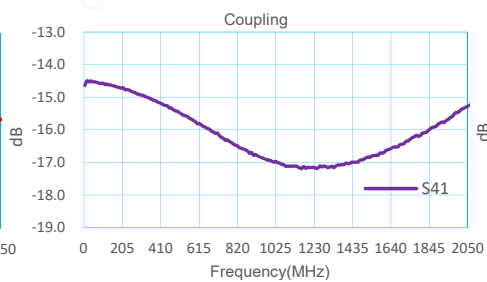
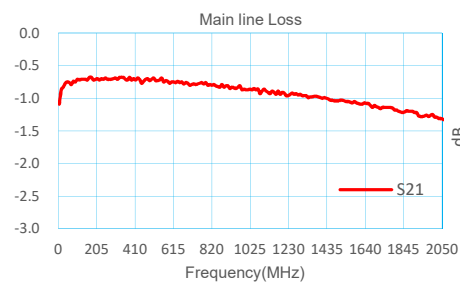
- For broadband and wireless communications
- For VHF/UHF receivers/transmitters
- For CATV power tap

Application circuit

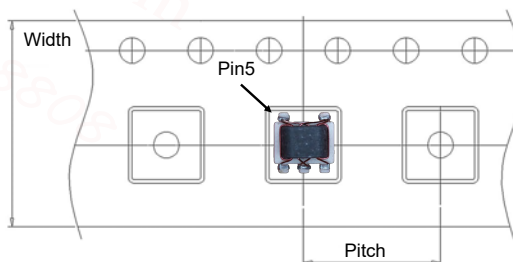


Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	40-2050MHz	dB	—	0.8	2.0
Coupling (Pin4-5)	40-2050MHz	dB	13.0	15.0	18.0
Return Loss(Pin4)	40-2050MHz	dB	12.0	25.0	—
Return Loss(Pin3)	40-2050MHz	dB	14.0	18.0	—
Return Loss(Pin5)	40-2050MHz	dB	12.0	25.0	—
Isolation(Pin5-3)	40-2050MHz	dB	15.0	22.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1500
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	12.00
Ao	mm	6.40
Bo	mm	6.00
Ko	mm	3.20