

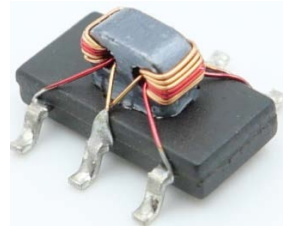
RF Directional Coupler

ECJ0042-C005534

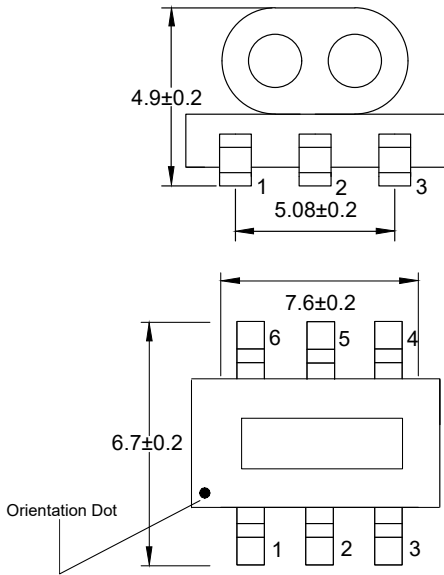
2022-11-16 Rev. 1

75Ω 15.5dB Directional Coupler

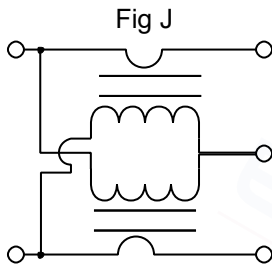
5-1200MHz



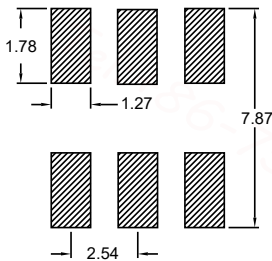
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
External 75 Ω	4
NC	5

Features

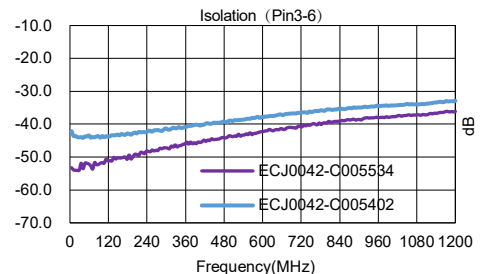
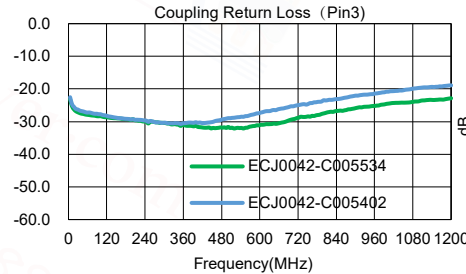
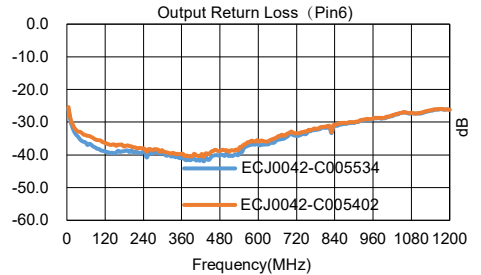
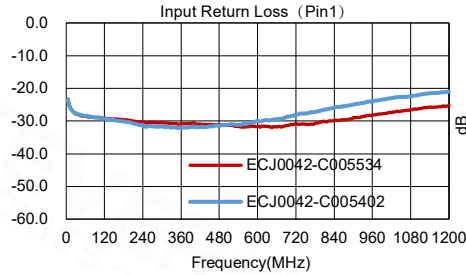
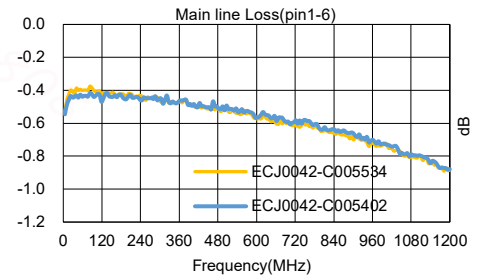
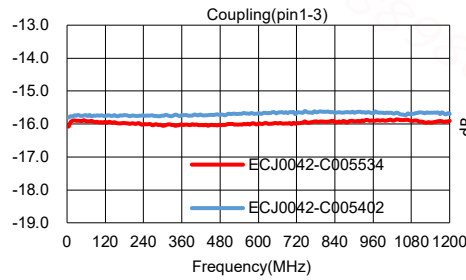
- Input Power:0.25W Max
- DC Current:250 mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃

Applications

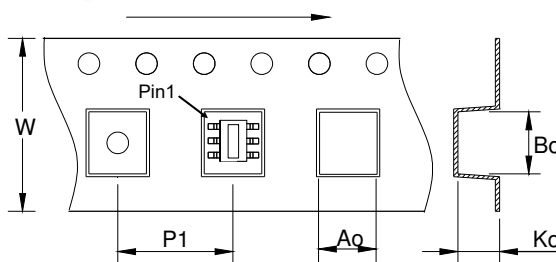
- For Docsis 3.0&4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-1200MHz	dB	15.0	15.9	16.25
Main line Loss(Pin1-6)	5-1200MHz	dB	—	0.6	1.0
Input Return Loss(Pin1)	5-1200MHz	dB	22.0	26.0	—
Output Return Loss(Pin6)	5-1200MHz	dB	22.0	27.0	—
Coupling Return Loss(Pin3)	5-1200MHz	dB	18.0	23.0	—
Isolation(Pin3-6)	5-1200MHz	dB	25.0	35.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1000
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	7.00
Bo	mm	8.00
Ko	mm	5.30