

# RF Directional Coupler

## ECJ1001-C091533

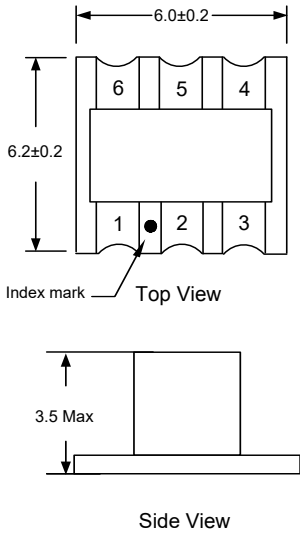
2023-12-05 Rev. 0



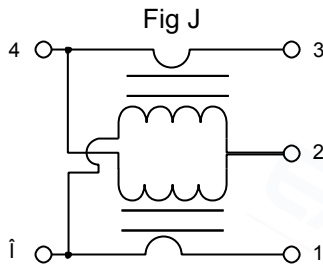
75Ω 10dB Directional Coupler 5-1250MHz

Replacement:MACP-011034

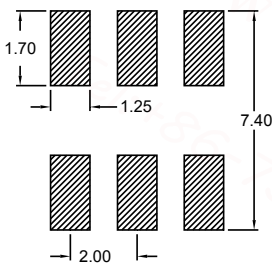
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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

### Features

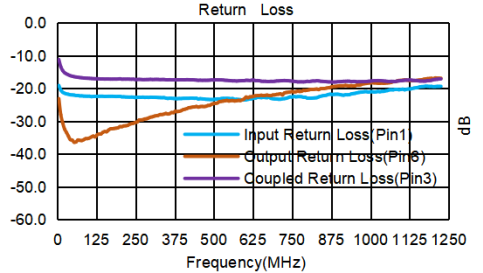
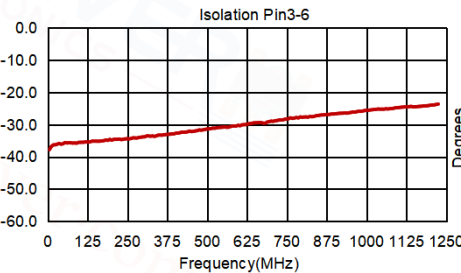
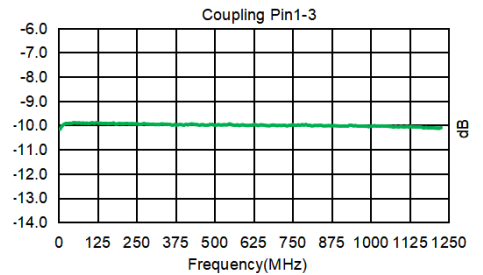
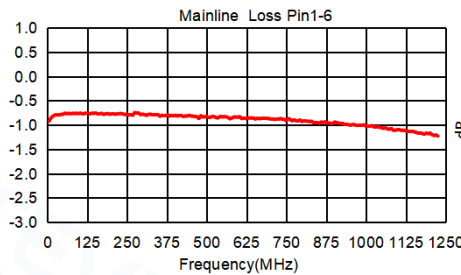
- Input Power:0.50W Max
- DC Current: 500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range:-40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

### Applications

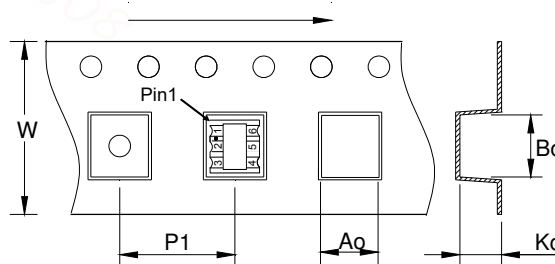
- For Dcscis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Mainline Loss(Pin1-6)	5-1250MHz	dB	—	0.8	1.8
Coupling(Pin1-3)	5-1250MHz	dB	9.5	10.0	10.5
Input Return Loss(Pin1)	5-1250MHz	dB	12.0	22.0	—
Output Return Loss(Pin6)	5-1250MHz	dB	12.0	20.0	—
Coupling Return Loss(Pin3)	5-1250MHz	dB	11.0	18.0	—
Isolation(Pin3-6)	5-1250MHz	dB	19.0	30.0	—



### 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