

# H2MACP-011091



5-1250MHz

75Ω 7.5dB Directional Coupler

### Features

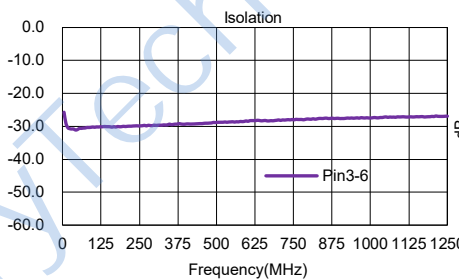
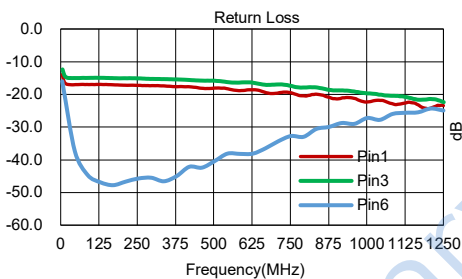
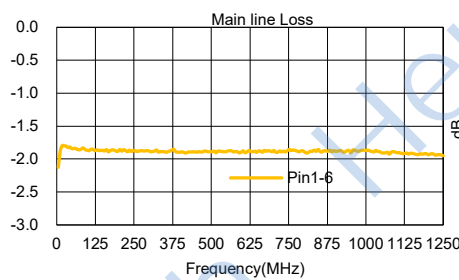
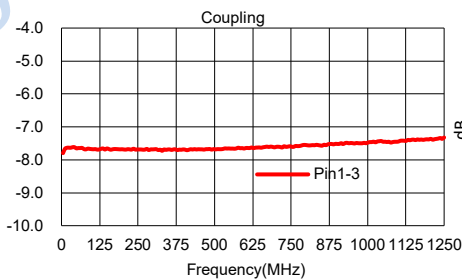
- Input Power: 1W Max
- DC Current: 500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

### Applications

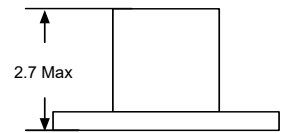
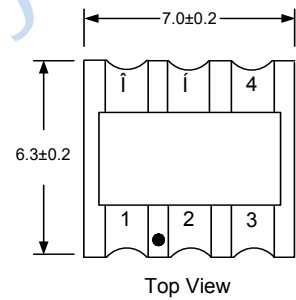
- For Docsis 3.0&4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

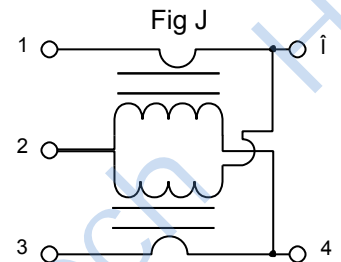
Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(Pin1-3)	5-1250MHz	dB	7.0	7.5	8.0
Main line Loss(Pin1-6)	5-1250MHz	dB	—	1.9	2.2
Input Return Loss(Pin1)	5-1250MHz	dB	15.0	17.0	—
Output Return Loss(Pin6)	5-1250MHz	dB	18.0	20.0	—
Coupling Return Loss(Pin3)	5-1250MHz	dB	15.0	17.0	—
Isolation(Pin3-6)	5-1250MHz	dB	20.0	25.0	—



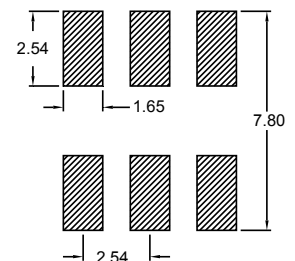
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	1
Coupling	3
Output	6
Ground	2
External 99Ω	4
NC	5