

RF Directional Coupler

ECJ1901-C010567

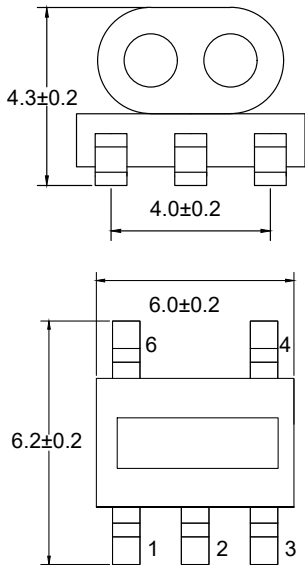
2020-06-04 Rev. 0



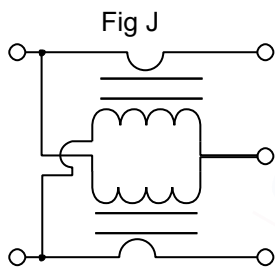
75Ω 19dB Directional Coupler

5-1250MHz

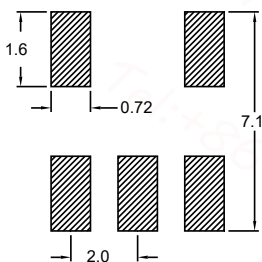
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

| | |
|-----------|---|
| Input | 1 |
| Coupling | 3 |
| Output | 6 |
| Ground | 2 |
| Isolation | 4 |

Features

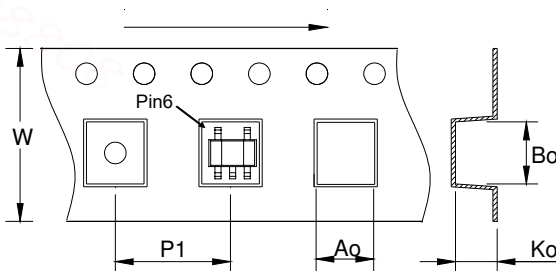
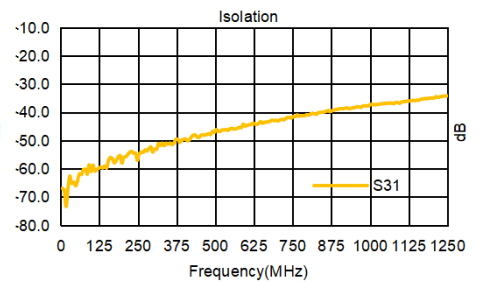
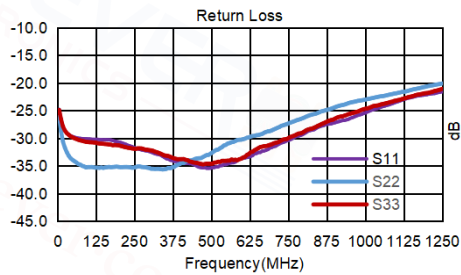
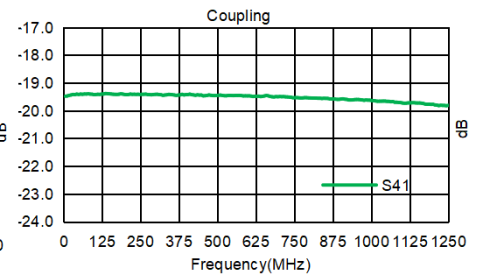
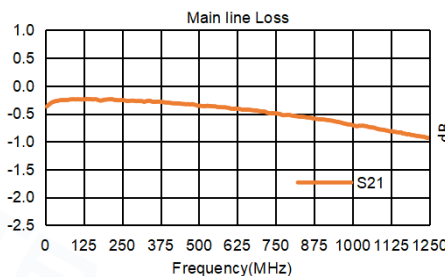
- Input Power:500mW Max
- DC Current:500 mA Max
- 260℃ reflow compatible
- RoHS Compliant and Pb free
- Operating temperature range: - 40℃ to+85℃
- Storage temperature range: - 55℃ to +100℃

Applications

- For Docsis 3.0 & 3.1 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) | 5-1250MHz | dB | 18.5 | 19.5 | 21.0 |
| Main line Loss(pin1-6) | 5-1250MHz | dB | — | 0.8 | 1.5 |
| Input Return Loss(pin 1) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Coupling Return Loss(pin3) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Output Return Loss(pin6) | 5-1250MHz | dB | 16.0 | 20.0 | — |
| Isolation(pin1-4) | 5-1250MHz | dB | 25.0 | 20.0 | — |



| Parameter | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS | 1000 |
| Reel Size | mm | 330 |
| Tape Width | mm | 24.00 |
| Pitch | mm | 12.00 |
| Ao | mm | 7.50 |
| Bo | mm | 6.50 |
| Ko | mm | 4.90 |