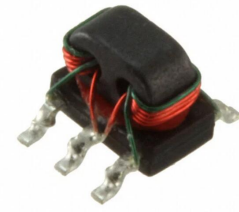


RF Directional Coupler

ECJ2201-C004358

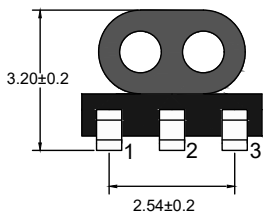
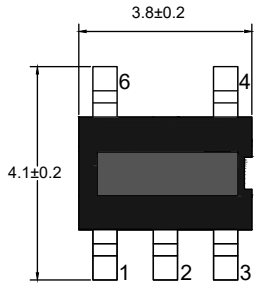
2020-11-30 Rev. 0



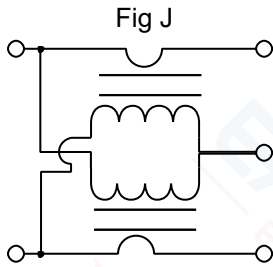
50Ω 22dB Directional Coupler

5-1300MHz

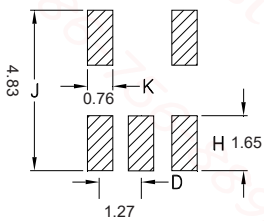
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

| | |
|-----------------|---|
| Input | 3 |
| Coupling | 1 |
| Output | 4 |
| Ground | 2 |
| External 50-Ohm | 6 |

Features

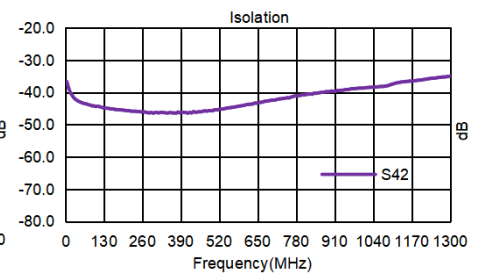
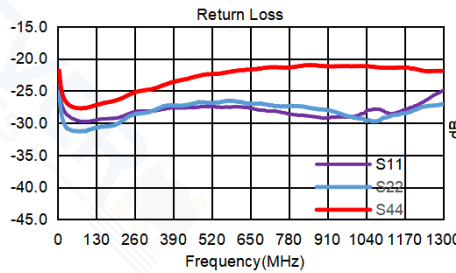
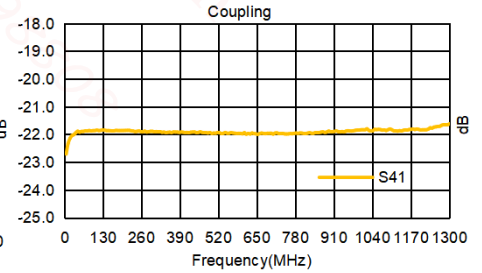
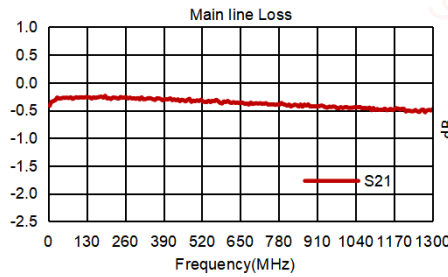
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

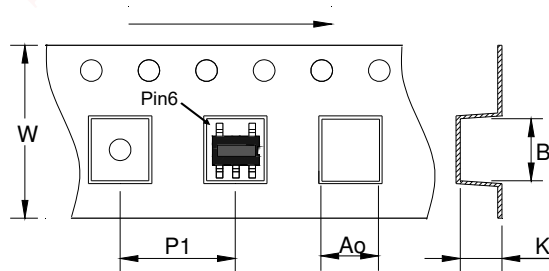
- For catv
- For broadband and wireless communications

Electrical Specifications: TA=25°C, 0dBm, Z0=50Ω

| Parameter | Test Conditions | Units | Min | Typ | Max |
|----------------------------|-----------------|-------|------|------|------|
| Coupling(pin3-1) | 5-1300MHz | dB | 21.0 | 22.0 | 23.0 |
| Main line Loss(pin3-4) | 5-1300MHz | dB | — | 0.5 | 1.2 |
| Input Return Loss(pin 3) | 5-1300MHz | dB | 20.0 | 25.0 | — |
| Coupling Return Loss(pin1) | 5-1300MHz | dB | 18.0 | 22.0 | — |
| Output Return Loss(pin4) | 5-1300MHz | dB | 20.0 | 25.0 | — |
| Isolation(pin1-4) | 5-1300MHz | dB | 30.0 | 40.0 | — |



Carrier Tape Orientation



Tape & Reel Information

| Parameter | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS | 2000 |
| Reel Size | mm | 330 |
| Tape Width | mm | 12.00 |
| Pitch | mm | 8.00 |
| Ao | mm | 4.50 |
| Bo | mm | 4.50 |
| Ko | mm | 3.50 |