

H2SYDC-20-31HP+



1.5-200MHz

50Ω 20dB Directional Coupler

Features

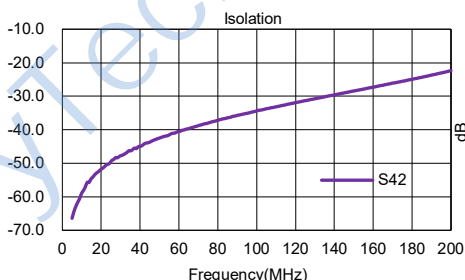
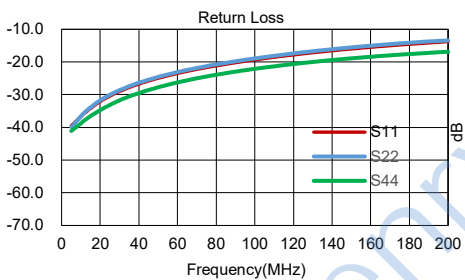
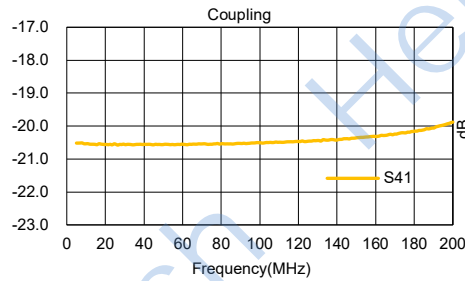
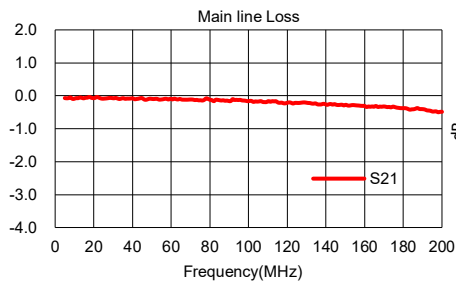
- Operating temperature range: -40 to +125
- Storage temperature range: -55 to +125
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 50W
- DC Current: 0.5A

Applications

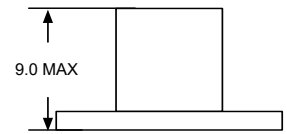
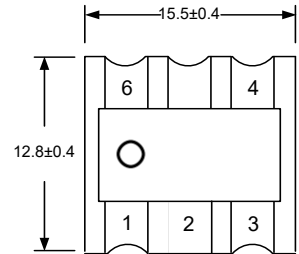
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

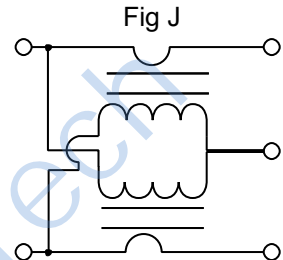
| Parameter | Test Conditions | Units | Min | Typ | Max |
|---------------------------|-----------------|-------|------|------|------|
| Coupling(S41) | 1.5-200MHz | dB | 19.0 | 20.0 | 21.0 |
| Main line Loss(S21) | 1.5-200MHz | dB | - | 0.8 | 1.5 |
| Input Return Loss(S11) | 1.5-200MHz | dB | 20.0 | 16.0 | - |
| Coupling Return Loss(S44) | 1.5-200MHz | dB | 18.0 | 16.0 | - |
| Output Return Loss(S22) | 1.5-200MHz | dB | 20.0 | 16.0 | - |
| Isolation(S42) | 1.5-200MHz | dB | 18.0 | 35.0 | - |



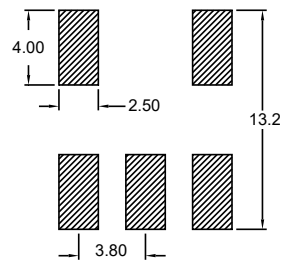
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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