

# H2SYDC-20-31HP+



1.5-200MHz

50Ω 20dB Directional Coupler

### Features

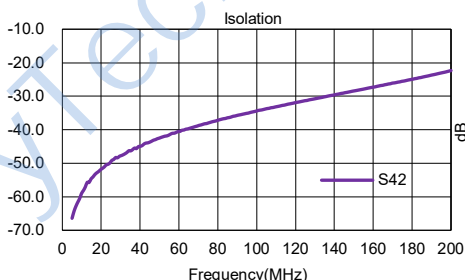
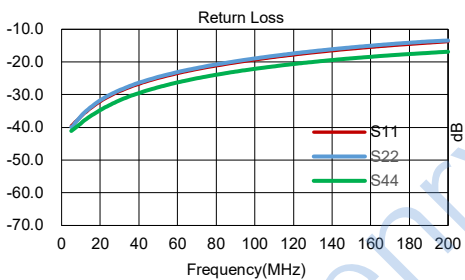
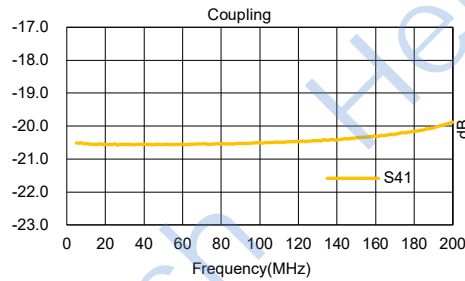
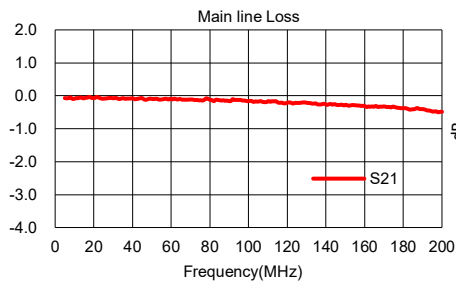
- Operating temperature range: -40 to +125
- Storage temperature range: -55 to +125
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 50W
- DC Current: 0.5A

### Applications

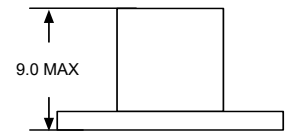
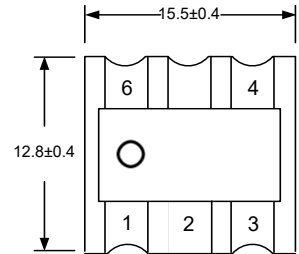
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

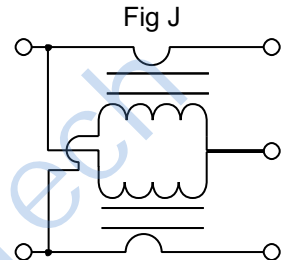
Parameter	Test Conditions	Units	Min	Typ	Max
Coupling(S41)	1.5-200MHz	dB	19.0	20.0	21.0
Main line Loss(S21)	1.5-200MHz	dB	-	0.8	1.5
Input Return Loss(S11)	1.5-200MHz	dB	20.0	16.0	-
Coupling Return Loss(S44)	1.5-200MHz	dB	18.0	16.0	-
Output Return Loss(S22)	1.5-200MHz	dB	20.0	16.0	-
Isolation(S42)	1.5-200MHz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



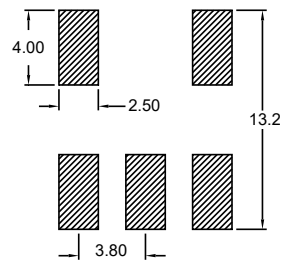
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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