

#### PRODUCT DATASHEET

## CDS-Hybrid-43 6GHz Directional Coupler Series

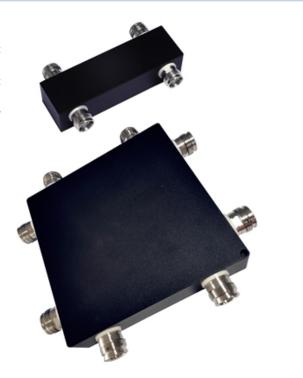
Broadband Hybrid Combiner for Wireless & Indoor Application, Support 555-6000MHz, 2X2 and 4X4

### **PRODUCT DESCRIPTION**

RFS CDS\*-Hybrid-43 series Hybrid Combiner have been designed for a variety of wireless applications in the frequency band from 555 to 6000MHz. This series contains 2 product types: 2 by 2 and 4 by 4. The 2 by 2 Hybrid Combiner is four-port directional coupler which equally combines two wireless signals and transfers the combined signal to two output ports whilst the 4 by 4 Hybrid Combiner which equally combines four wireless signals and transfers the combined signal to four output ports. The broad frequency range is ideally suited for multi-band distributed antenna systems or in combination with RADIAFLEX® radiating cables.

#### **FEATURES / BENEFITS**

- · Broadband 555MHz-6000MHz
- 4.3-10-female interfaces
- PIM optimized design (163dBc @ 2x43dBm)
- Ideal for all kind of DAS applications
- · Low insertion loss
- · High power handling
- Small size, low weight



### **TECHNICAL FEATURES**

### **ELECTRICAL SPECIFICATIONS**

Frequency Range	MHz	555-6000	
Power Rating	W	200	
PIM 3rd @2*43 dBm	dBc	163	
Input Impedance	Ohm	50	

### **MECHANICAL SPECIFICATIONS**

Connectors		4.3-10 Female	
Temperature Range	°C	-25 to +65	
IP Level		IP66	
RoHS		Compliant	

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REV: P2

REV DATE: 28 Jul 2021

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MODEL NUMBER SPECIFICATIONS					
Model Number		CDS2x2-43-555/6000	CDS4x4-43-555/6000		
VSWR		1.25	1.3		
PIM 3rd @2*43 dBm	dBc	163	163@700&1.8GHz, 160@3.5GHz		
Coupling Tolerance	dB	3.1dB ±1.1dB@0.555-0.65GHz 3.1dB ±0.8dB@0.65-6GHz	6.2dB ±1.5dB@0.617-5.95GHz 6.2dB ±2dB@0.555-0.617GHz 6.2dB ±2dB@5.95-6GHz		
Isolation	dB	20dB@0.555-2.7GHz 21dB@2.7-6GHz	19dB@0.555-6GHz		
Dimensions, L*W*H	mm (in)	145*79*36 (5.71*3.11*1.42)	239*239*35 (9.4*9.4*1.38)		
Net Weight, ±10%	kg (lb)	0.56(1.23)	1.36(3)		

**External Document Links** 

Notes

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LINK to VEX FILES

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