

**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     |



**MODEL NUMBER SPECIFICATIONS**

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

**External Document Links**

[LINK to VEX FILES](#)

**Notes**