

**PRODUCT DESCRIPTION**

RFS CDS-Hybrid-E 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
- N-female interfaces
- PIM optimized design (160dBc @ 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 | 160      |
| Input Impedance   | Ohm | 50       |

**MECHANICAL SPECIFICATIONS**

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

**MODEL NUMBER SPECIFICATIONS**

| Model Number          |         | CDSE2x2-555/6000   | CDSE4x4-555/6000   |
|-----------------------|---------|--|--|
| VSWR                  |         | 1.25   | 1.3  |
| Coupling Tolerance    | dB      | 3.1dB $\pm$ 1.1dB@0.555-0.65GHz<br>3.1dB $\pm$ 0.8dB@0.65-6GHz | 6.2dB $\pm$ 1.5dB@0.617-5.95GHz<br>6.2dB $\pm$ 2dB@0.555-0.617GHz<br>6.2dB $\pm$ 2dB@5.95-6GHz |
| Isolation             | dB      | 20dB@0.555-2.7GHz<br>21dB@2.7-6GHz                             | 19dB@0.555-6GHz  |
| Dimensions, L*W*H     | mm (in) | 145*79*36<br>(5.71*3.11*1.42)                                  | 183*183*32.5<br>(7.2*7.2*1.28)   |
| Net Weight, $\pm$ 10% | kg (lb) | 0.56(1.23)   | 1.36(3)  |



**External Document Links**

[LINK to VEX FILES](#)

**Notes**