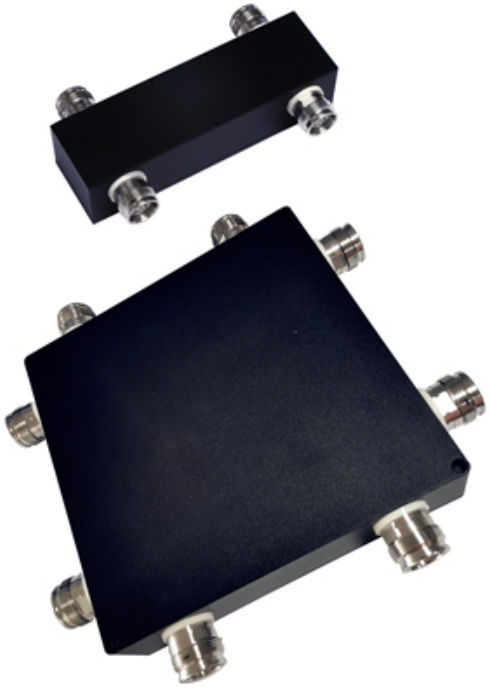
PRODUCT DATASHEET

# CDSE2x2-555/6000

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

## PRODUCT DESCRIPTION

RFS Technologies 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 |



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

## MODEL NUMBER SPECIFICATIONS

| Model Number | | CDSE2x2-555/6000 | CDSE4x4-555/6000 |
|---|---|---|---|
| VSWR | | 1.25 | 1.3 |
| Coupling Tolerance | 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 |
| 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, ±10% | kg (lb) | 0.56(1.23) | 1.36(3) |

**External Document Links**

LINK to VEX FILES

**Notes**



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