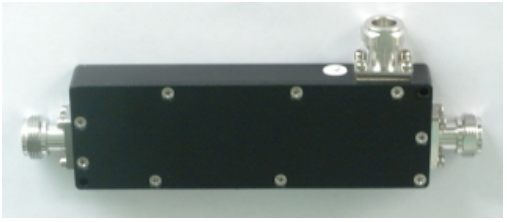
PRODUCT DATASHEET

# CDS20E-694/3800

20dB Directional Coupler

RFS Technologies CDS**E series Directional Coupler has been designed for outdoor applications covering 694 to 3800MHz. Units couple off a defined fraction of signal from 6 to 30 dB with minimal reflections or loss. The frequency range allows use with antennas and leaky cable systems and in wireless base stations. With minimal solder joints, the dissipative loss has been minimized and reliability enhanced.



FEATURES / BENEFITS

- **20 dB coupling value**
- **Low insertion loss**
- **High power handling**
- **Small size, Low weight**
- **N-female connectors**
- **Low PIM**

## Technical features

### STRUCTURE

| | | |
|---|---|---|
| **Product Type** | | Directional Coupler |
| **Techn. Application** | | Indoor |
| **Number of Input Ports** | | 1 |
| **Number of Output Ports** | | 2 |

### ELECTRICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Frequency Range** | MHz | 694 - 3800 |
| **Connector Type** | | N female |
| **Max. VSWR / Return Loss** | VSWR/dB | 1.25/19.1 (1.25) |
| **Insertion Loss max.** | dB | 0.2 |
| **Coupling Value** | dB | 20 |
| **Coupling Flatness max.** | dB | ±1.0 |
| **Intermodulation (IM3)** | | -155 dBc with 2x43 dBm tones |
| **Directivity min.** | dB | 20 |
| **Impedance** | Ohm | 50 |
| **Total Input Power** | W | 200 |

### TEMPERATURE SPECIFICATIONS

| | | |
|---|---|---|
| **Temperature Range** | °C (°F) | -25 to +65 (-13 to +149) |

### MECHANICAL SPECIFICATIONS

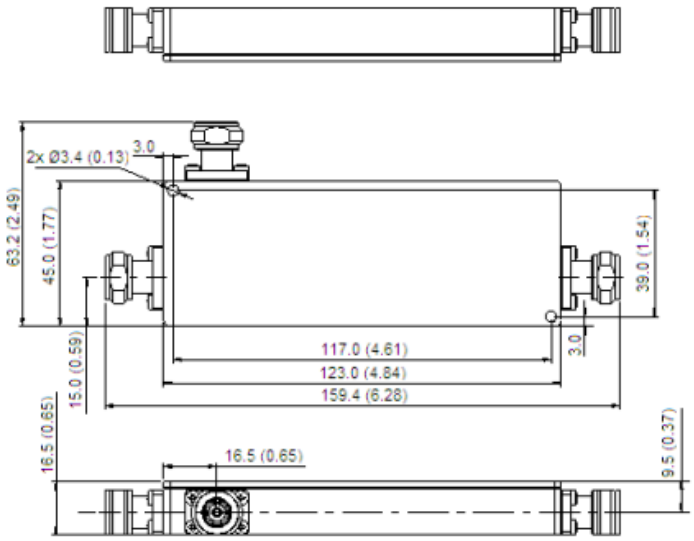
| | | |
|---|---|---|
| **Height** | mm (in) | 16.5 (0.65) |
| **Width** | mm (in) | 63.2 (2.49) |
| **Length** | mm (in) | 159.4 (6.28) |

### TESTING AND ENVIRONMENTAL

| | | |
|---|---|---|
| **Environmental Class** | | IP65 |



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




Dimensions mm(inch)

External Document Links

Notes



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