

**CDS20E-694/3800****20dB Directional Coupler**

RFS 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 |
| Number of Input Ports  | 1                   |
| Number of Output Ports | 2                   |
| Connector Type         | N female            |

**ELECTRICAL SPECIFICATIONS**

|                         |                              |
|-------------------------|------------------------------|
| lower frequency         | upper frequency              |
| 694                     | 3800                         |
| Impedance               | 50 $\Omega$                  |
| Insertion Loss max.     | 0.2 dB                       |
| Max. VSWR / Return Loss | 1.25 (19.1)                  |
| Intermodulation (IM3)   | -155 dBc with 2x43 dBm tones |
| Coupling Value          | 20 dB                        |
| Directivity min.        | 20                           |
| Total Input Power       | 200 W                        |

**TEMPERATURE SPECIFICATIONS**

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

**MECHANICAL SPECIFICATIONS**

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

**TESTING AND ENVIRONMENTAL**

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





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External Document Links

Notes