PRODUCT DATASHEET
CDS10DE-694/3800
10dB Directional Coupler

RFS CDS**E series Directional Coupler has been designed for outdoor applications covering 694 to 3800 MHz . 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


- 10 dB coupling value
- Low insertion loss
- High power handling
- Small size, Low weight
- 716-female connectors
- -155 dBc PIM


## Technical features

## STRUCTURE

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

ELECTRICAL SPECIFICATIONS

| Frequency <br> Range | MHz | $694-3800$ |
| :--- | :---: | :---: |
| Connector Type |  | 716 female |
| Max. VSWR / <br> Return Loss | $\mathrm{VSWR} / \mathrm{dB}$ | $1.25 / 19.1(1.25)$ |
| Insertion Loss <br> max. | dB | 0.7 |
| Coupling Value | dB | 10 |
| Coupling <br> Flatness max. | dB | $\pm 1.0$ |
| Intermodulation <br> (IM3) | dB | 20 |
| Directivity min. | -155 dBc with $2 \times 43 \mathrm{dBm}$ tones |  |


| Impedance | Ohm | 50 |
| :--- | :--- | :--- |
| Total Input Power | W | 200 |

## TEMPERATURE SPECIFICATIONS

| Temperature Range | ${ }^{\circ} \mathrm{C}\left({ }^{\circ} \mathrm{F}\right)$ | -25 to $+65(-13$ to +149$)$ |
| :--- | :---: | :---: | :---: |
| MECHANICAL SPECIFICATIONS |  |  |
| Height | $\mathrm{mm}(\mathrm{in})$ | $18(0.71)$ |
| Width | $\mathrm{mm}(\mathrm{in})$ | $58.2(2.3)$ |
| Length | $\mathrm{mm}(\mathrm{in})$ | $159.4(6.28)$ |

TESTING AND ENVIRONMENTAL



Dimensions mm(inch)

External Document Links

