

## PRODUCT SPECIFICATIONS

### DC-825-200-YY-NF-WP

Directional Coupler for CDMA800, GSM900, GSM1800, UMTS, WLAN (Outdoor Type)

Where YY is coupling in dB: 3, 6, 10, 15, 20, 30.



### Electrical Specifications

|                                      |                       |            |             |             |           |             |
|--------------------------------------|-----------------------|------------|-------------|-------------|-----------|-------------|
| <b>Frequency Range:</b>              | 800-2500 MHz          |            |             |             |           |             |
| <b>Coupling:</b>                     | 3 dB ± 0.6            | 6 dB ± 0.6 | 10 dB ± 0.8 | 15 dB ± 0.8 | 20 dB ± 1 | 30 dB ± 1.5 |
| <b>Splitting Ratio<sup>1</sup>:</b>  | 3.02 dB               | 1.256 dB   | 0.458 dB    | 0.140 dB    | 0.055 dB  | 0.004 dB    |
| <b>Dissipative Loss<sup>2</sup>:</b> | ≤0.35 dB              | ≤0.29 dB   | ≤0.3 dB     | ≤0.26 dB    | ≤0.245 dB | ≤0.246 dB   |
| <b>Directivity:</b>                  | ≥20 dB                |            |             |             |           |             |
| <b>Power Rating:</b>                 | 200 W                 |            |             |             |           |             |
| <b>VSWR:</b>                         | ≤1.2                  |            |             |             |           |             |
| <b>Intermodulation:</b>              | ≤-140                 |            |             |             |           |             |
| <b>Impedance:</b>                    | 50 Ω                  |            |             |             |           |             |
| <b>Temperature Range:</b>            | -50 to 80 °C          |            |             |             |           |             |
| <b>Interface:</b>                    | N Female, Gold Plated |            |             |             |           |             |

### Mechanical Specifications

|                     |   |
|---------------------|---|
| <b>Environment:</b> | Outdoor   |
| <b>Weight:</b>      | 160 g (3 dB version), 200 g (all others)            |
| <b>Dimensions:</b>  | 95x28x16 mm (3 dB model), 120x40x17 mm (all others) |
| <b>Colour:</b>      | Black   |

<sup>1</sup> Splitting Ratio considers there is no tolerance in coupling (dB)

<sup>2</sup> Dissipative Loss figures are based on the gold-plated connector.