

## Directional Coupler Specification

**PN:Cx-560-yy (x=coupling yy=connector type)**

- . Multiple-Band Freq 555, 700, 850, 900, PCS, UMTS, WCS, CBRS, WiFi, LTE-LAA
- . Minimal RF Insertion Loss
- . High Reliability, IP65
- . Guaranteed Low PIM
- . RoHS Compliant

### 1. Electric performance

| Coupling       | 5dB                          | 6dB     | 8dB     | 10dB     | 15dB     | 20dB     | 30dB     |
|----------------|------------------------------|---------|---------|----------|----------|----------|----------|
| Frequency      | 555-6000 MHz                 |         |         |          |          |          |          |
| Coupling       | 5±1.2dB                      | 6±1.2dB | 8±1.2dB | 10±1.3dB | 15±1.5dB | 20±1.5dB | 30±1.5dB |
| Insertion Loss | 2.3 dB                       | 1.85 dB | 1.65 dB | 0.85 dB  | 0.5 dB   | 0.3dB    | 0.3 dB   |
| Directivity    | 20dB                         | 20dB    | 20dB    | 20dB     | 20dB     | 20dB     | 20dB     |
| Return Loss    | 18dB                         | 18dB    | 18dB    | 18dB     | 18dB     | 18dB     | 18dB     |
| PIM 2X43dBm    | - 160dBc<br>- 168dBc typical |         |         |          |          |          |          |
| DC pass/block  | Pass(current 2A) in-out      |         |         |          |          |          |          |
| Power average  | 300 W                        |         |         |          |          |          |          |
| Power peak     | 3000W                        |         |         |          |          |          |          |
| Impedance      | 50 ohm                       |         |         |          |          |          |          |

### 2. Environment

|               |           |  |
|---------------|-----------|--|
| Waterproof    | IP65      |  |
| Work temp     | -40-75℃   |  |
| store temp    | -50-85℃   |  |
| Work Humidity | <95%      |  |
| Work Altitude | <5000m    |  |
| Salt fog      | 168 hours |  |
| ROHS          | compliant |  |

### 3. Mechanical

|                    |                                                                                               |                   |
|--------------------|-----------------------------------------------------------------------------------------------|-------------------|
| Connector type     | Option: N(f)<br>4.3/10(f)                                                                     |                   |
| Connector material | Body: brass+ COPPER-TIN-ZINC2μm<br>Inner conductor: beryllium copper+Ag 3um<br>Insulator:PTFE |                   |
| Surface            | Grey powder                                                                                   | Customized colors |
| Thermal shock      | IEC 60068-2-14-Na                                                                             |                   |
| Vibration          | IEC 60068-2-6-Fc                                                                              |                   |

|                         |                                |            |
|-------------------------|--------------------------------|------------|
| <b>Shock</b>            | IEC 60068-2-27                 |            |
| <b>Mounting</b>         | Wall, bracket                  | M3/M4 bolt |
| <b>Unit Dimension</b>   | 116X36X22mm                    | See below  |
| <b>Unit Package</b>     | 160x70x40mm                    |            |
| <b>Unit Weight</b>      | 200g                           |            |
| <b>Carton qty</b>       | 36 pcs/box                     |            |
| <b>Carton dimension</b> | 35X30X20CM                     |            |
| <b>Carton weight</b>    | 8Kg                            |            |
| <b>Connector torque</b> | N: 1.36 N/m<br>4.3/10: 1.6 N/m | Recommend  |

