

# Westell® VHF - 960MHz Directional Couplers

Low PIM



## General Information

Directional couplers are unequal splitters that are used to balance out the RF power within a distributed antenna system. They are a perfect fit for the server side of a distributed antenna system, or to couple another signal source into the donor coax.

These Low PIM coaxial directional couplers feature a low through loss and power handling capability of 200 watts average power.

## Product Highlights

- Guaranteed -153 dBc PIM Compliance
- Available with N-Type, Female Connectors
- Low Through Loss
- High Directivity
- 200 Watts Average Power
- IP65 Compliant
- RoHS Compliant

\*Mounting bracket available as separate item. Use P/N 521-003669-001

## Frequency Range

- 138-960 MHz



N-Type female connector

## Ordering Information

| Part Number  | Description                                     |
|--------------|---|
| CV05-508-630 | VHF-DC5/138-960/N(F), 5dB Directional coupler   |
| CV05-509-630 | VHF-DC6/138-960/N(F), 6dB Directional coupler   |
| CV05-510-630 | VHF-DC7/138-960/N(F), 7dB Directional coupler   |
| CV05-511-630 | VHF-DC8/138-960/N(F), 8dB Directional coupler   |
| CV05-512-630 | VHF-DC10/138-960/N(F), 10dB Directional coupler |
| CV05-513-630 | VHF-DC13/138-960/N(F), 13dB Directional coupler |
| CV05-514-630 | VHF-DC15/138-960/N(F), 15dB Directional coupler |
| CV05-515-630 | VHF-DC20/138-960/N(F), 20dB Directional coupler |
| CV05-516-630 | VHF-DC30/138-960/N(F), 30dB Directional coupler |

## Specifications

| Freq (MHz)       | 138-960                                      |       |       |       |      |      |      |      |      |      |
|------------------|--|-------|-------|-------|------|------|------|------|------|------|
| Coupling (dB)    | 5  | 6     | 7     | 8     | 10   | 13   | 15   | 20   | 30   |      |
| IL (dB)          | ≤2.2   | ≤1.75 | ≤1.45 | ≤1.35 | ≤0.9 | ≤0.7 | ≤0.5 | ≤0.4 | ≤0.4 | ≤0.4 |
| Accuracy (dB)    | ±1.4   | ±1.5  | ±1.7  | ±1.8  | ±2.0 | ±2.0 | ±2.0 | ±2.0 | ±2.0 | ±2.5 |
| Isolation (dB)   | ≥19  | ≥21   | ≥22   | ≥23   | ≥25  | ≥28  | ≥30  | ≥35  | ≥45  | ≥45  |
| VSWR             | ≤1.3   |       |       |       |      |      |      |      |      |      |
| PIM (dBc)        | ≤-153dBc @ 2 x 43dBm @ 700Mhz                |       |       |       |      |      |      |      |      |      |
| Power (W)        | 200 (average)                                |       |       |       |      |      |      |      |      |      |
| Impedance        | 50 ohm                                       |       |       |       |      |      |      |      |      |      |
| Connector        | N-female                                     |       |       |       |      |      |      |      |      |      |
| Color            | Red  |       |       |       |      |      |      |      |      |      |
| Temp             | -35~+65                                      |       |       |       |      |      |      |      |      |      |
| Application      | Indoor & Outdoor IP65                        |       |       |       |      |      |      |      |      |      |
| Humidity         | 5%-95%                                       |       |       |       |      |      |      |      |      |      |
| Dimensions LxHxD | 15.79" x 2.54" x 0.73" (Connectors Included) |       |       |       |      |      |      |      |      |      |

