

# ClearLink® Directional Couplers

## General Information

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

## Frequency Range

- 698-2700 MHz

## Features & Benefits

- Guaranteed PIM Compliance
- Available with Type N, 4.3-10 or 7/16 DIN Female Connectors
- Low Insertion Loss
- High Directivity
- Dual Directional
- 200 Watts Average Power
- IP65 Compliant
- RoHS Compliant
- Covers WiMax



4.3-10 connector image coming soon

## Specifications

|                              |                  |      |      |      |      |      |
|------------------------------|------------------|------|------|------|------|------|
| Standard Coupling (dB)       | 5                | 6    | 10   | 15   | 20   | 30   |
| Insertion Loss (dB)          | 2.1              | 1.7  | 0.8  | 0.5  | 0.3  | 0.2  |
| Coupling Variation (dB)      | ±1.0             | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.2 |
| VSWR (:1)                    | 1.35             | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| Directivity (Min Value) (dB) | 20               | 20   | 20   | 20   | 20   | 20   |
| Operating Temperature        | -25° C to +75° C |      |      |      |      |      |

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## Ordering Details

| Connector Type                                                     | Dimensions            | PIM Rating (dBc) | Standard Coupling (dB) | Model Number                      | Item Number      |
|--------------------------------------------------------------------|-----------------------|------------------|------------------------|-----------------------------------|------------------|
| N Connectors:<br>Input/Output: N-Female<br>Coupled port: N-Female  | 6.09 x 2.56 x 0.87 in | -153             | 5                      | ClearLink-DC5/698-2.7K/N          | CS05-124-429     |
|                                                                    |                       |                  | 6                      | ClearLink-DC6/698-2.7K/N          | CS05-125-429     |
|                                                                    |                       |                  | 10                     | ClearLink-DC10/698-2.7K/N         | CS05-128-429     |
|                                                                    |                       |                  | 15                     | ClearLink-DC15/698-2.7K/N         | CS05-129-429     |
|                                                                    |                       |                  | 20                     | ClearLink-DC20/698-2.7K/N         | CS05-130-429     |
|                                                                    |                       |                  | 30                     | ClearLink-DC30/698-2.7K/N         | CS05-131-429     |
| DIN Connectors:<br>Input/Output: DIN<br>Coupled port: DIN          | 6.68 x 2.89 x 1.42 in | -153             | 6                      | ClearLink-DC6/698-2.7K/DDD        | CS05-148-429     |
|                                                                    |                       |                  | 10                     | ClearLink-DC10/698-2.7K/DDD       | CS05-149-429     |
|                                                                    |                       |                  | 15                     | ClearLink-DC15/698-2.7K/DDD       | CS05-150-429     |
|                                                                    |                       |                  | 20                     | ClearLink-DC20/698-2.7K/DDD       | CS05-151-429     |
|                                                                    |                       |                  | 30                     | ClearLink-DC30/698-2.7K/DDD       | CS05-152-429     |
|                                                                    |                       | -161             | 6                      | ClearLink-DC6/698-2.7K/-161/DIN   | CS05-183-429     |
|                                                                    |                       |                  | 10                     | ClearLink-DC10/698-2.7K/-161/DIN  | CS05-184-429     |
|                                                                    |                       |                  | 20                     | ClearLink-DC20/698-2.7K/-161/DIN  | CS05-185-429     |
|                                                                    |                       |                  | 30                     | ClearLink-DC30/698-2.7K/-161/DIN  | CS05-186-429     |
|                                                                    |                       |                  |                        |                                   |                  |
| 4.3-10 Connectors:<br>Input/Output: 4.3-10<br>Coupled port: 4.3-10 | 6.09 x 2.56 x 0.87 in | -154             | 5                      | ClearLink-DC5/698-2.7K/4310       | CS05-124-4294310 |
|                                                                    |                       |                  | 6                      | ClearLink-DC6/698-2.7K/4310       | CS05-125-4294310 |
|                                                                    |                       |                  | 10                     | ClearLink-DC10/698-2.7K/4310      | CS05-128-4294310 |
|                                                                    |                       |                  | 15                     | ClearLink-DC15/698-2.7K/4310      | CS05-129-4294310 |
|                                                                    |                       |                  | 20                     | ClearLink-DC20/698-2.7K/4310      | CS05-130-4294310 |
|                                                                    |                       |                  | 30                     | ClearLink-DC30/698-2.7K/4310      | CS05-131-4294310 |
|                                                                    |                       | -161             | 5                      | ClearLink-DC5/698-2.7K/-161/4310  | CS05-173-429     |
|                                                                    |                       |                  | 6                      | ClearLink-DC6/698-2.7K/-161/4310  | CS05-174-429     |
|                                                                    |                       |                  | 10                     | ClearLink-DC10/698-2.7K/-161/4310 | CS05-175-429     |
|                                                                    |                       |                  | 15                     | ClearLink-DC15/698-2.7K/-161/4310 | CS05-176-429     |
|                                                                    |                       |                  | 20                     | ClearLink-DC20/698-2.7K/-161/4310 | CS05-177-429     |
|                                                                    |                       |                  |                        |                                   |                  |

Specifications subject to change without notice.

ClearLink® devices are measured with two tones at +43 dBm.

