

**DATASHEET**

**13-UCDCXXX-O1 | DIRECTIONAL COUPLER**

**Frequency:** 698-4200MHz | **Coupling Value:** 5/6/7/8/10/13/15/20/30/40dB | **Connector:** DIN Female

**PIM:** ≤ -150/-155/-160dBc | **Usage:** Indoor & Outdoor | **Power:** 300W



**OVERVIEW**

BRIDGE Directional Coupler is the product to split RF signal by rated power value, it is unequal power product. Meanwhile it is a signal transmission product with directionality. Widely used indoor signal coverage to distribute the power to antenna points. Coupling values is from 5/6/7/8/10/13/15/20/30/40. More coupling value less insertion loss at straight port.

BRIDGE Directional Coupler is using wide band technology to coverage the wide band range signals from 698-4200Mhz. Reach -160dBc PIM value by Low PIM and fully plating technology, which is good to provide high data transmission coverage needs. Widely used GSM /WCDMA / LTE network.

In the section of materials selection, Bridge products are all made of good and rugged materials, which make sure long product working life and stable working performance.

**Product**



**FEATURES**

- Wide working range from 698-4200Mhz.
- 5/6/7/8/10/13/15/20/30/40 Coupling value is optional.
- PIM level is optional at -150dBc/-155dBc/-160dBc.
- Connectors is available at N type, Din type and 4.3-10 type.
- High IP Class reach to IP65 and support working in bad installation environment.

**TECHNICAL DATA**

Part Numbers						
PIM : IM3	≤-150 dBc	13-UCDC305-O1	13-UCDC306-O1	13-UCDC307-O1	13-UCDC308-O1	13-UCDC310-O1
	≤-155 dBc	13-UCDC505-O1	13-UCDC506-O1	13-UCDC507-O1	13-UCDC508-O1	13-UCDC510-O1
	≤-160 dBc	13-UCDC705-O1	13-UCDC706-O1	13-UCDC707-O1	13-UCDC708-O1	13-UCDC710-O1
Coupling Value		5dB	6dB	7dB	8dB	10dB
Coupling Tolerance		±1.0dB	±1.0dB	±1.0dB	±1.0dB	±1.0dB
Insertion Loss		≤2.15dB	≤1.76dB	≤1.47dB	≤1.15dB	≤0.96dB
Isolation		≥23dB	≥24dB	≥25dB	≥26dB	≥28dB
PIM : IM3	≤-150 dBc	13-UCDC313-O1	13-UCDC315-O1	13-UCDC320-O1	13-UCDC330-O1	13-UCDC340-O1
	≤-155 dBc	13-UCDC513-O1	13-UCDC515-O1	13-UCDC520-O1	13-UCDC530-O1	13-UCDC540-O1
	≤-160 dBc	13-UCDC713-O1	13-UCDC715-O1	13-UCDC720-O1	13-UCDC730-O1	13-UCDC740-O1
Coupling Value		13dB	15dB	20dB	30dB	40dB
Coupling Tolerance		±1.2dB	±1.2dB	±1.5dB	±1.5dB	±1.5dB
Insertion Loss		≤0.6dB	≤0.44dB	≤0.34dB	≤0.30dB	≤0.20dB
Isolation		≥31dB	≥33dB	≥38dB	≥48dB	≥52dB

Unit measurements in mm

Disclaimer: All images are for reference purposes only

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Bridge Components holds the right to change the product specifications without notice.

DATASHEET

# 13-UCDCXXX-01 | DIRECTIONAL COUPLER

Frequency: 698-4200MHz | Coupling Value: 5/6/7/8/10/13/15/20/30/40dB | Connector: DIN Female

PIM: ≤ -150/-155/-160dBc | Usage: Indoor & Outdoor | Power: 300W



## Electrical Specifications

Frequency Range	698-4200MHz
VSWR/Return Loss	≤1.25/ -19dB
Power Rating	300 W
Impedance	50 Ω

## Mechanical Specifications

Connectors	DIN Female
Dimensions	126x45x25 mm
Weight	0.59kg
Color	Black

## Environmental Specifications

Temperature	- 35 C° ~ +85 C°
Humidity	≤95%
IP Rating	IP65 (Indoor and Outdoor)

## Installation Specifications

Installation Method	Wall Mounting
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Unit measurements in mm

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