

DATASHEET

13-UCDEXXX-O1 | DIRECTIONAL COUPLER

Frequency: 698-4200MHz | **Coupling Value:** 5/6/7/8/10/13/15/20/30/40dB | **Connector:** 4.3-10 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. 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-UCDE305-O1	13-UCDE306-O1	13-UCDE307-O1	13-UCDE308-O1	13-UCDE310-O1
	≤-155 dBc	13-UCDE505-O1	13-UCDE506-O1	13-UCDE507-O1	13-UCDE508-O1	13-UCDE510-O1
	≤-160 dBc	13-UCDE705-O1	13-UCDE706-O1	13-UCDE707-O1	13-UCDE708-O1	13-UCDE710-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-UCDE313-O1	13-UCDE315-O1	13-UCDE320-O1	13-UCDE330-O1	13-UCDE340-O1
	≤-155 dBc	13-UCDE513-O1	13-UCDE515-O1	13-UCDE520-O1	13-UCDE530-O1	13-UCDE540-O1
	≤-160 dBc	13-UCDE713-O1	13-UCDE715-O1	13-UCDE720-O1	13-UCDE730-O1	13-UCDE740-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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DATASHEET

13-UCDEXXX-01 | DIRECTIONAL COUPLER

Frequency: 698-4200MHz | Coupling Value: 5/6/7/8/10/13/15/20/30/40dB | Connector: 4.3-10 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	4.3-10 Female
Dimensions	126x45x25 mm
Weight	0.54kg
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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