

**DATASHEET**

**13-UEACXXX-O1 | DIRECTIONAL COUPLER**

**Frequency:** 698-2700MHz | **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 5/6/7/8/10/13/15/20/30/40dB. 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 698-2700Mhz. 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 698-2700Mhz.
- 5/6/7/8/10/13/15/20/30/40dB 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-UEAC305-O1	13-UEAC306-O1	13-UEAC307-O1	13-UEAC308-O1	13-UEAC310-O1
	≤-155 dBc	13-UEAC505-O1	13-UEAC506-O1	13-UEAC507-O1	13-UEAC508-O1	13-UEAC510-O1
	≤-160 dBc	13-UEAC705-O1	13-UEAC706-O1	13-UEAC707-O1	13-UEAC708-O1	13-UEAC710-O1
Coupling Value		5dB	6dB	7dB	8dB	10dB
Coupling Tolerance		±0.8dB	±0.8dB	±0.8dB	±0.8dB	±1.0dB
Insertion Loss		≤2.15dB	≤1.76dB	≤1.47dB	≤1.17dB	≤0.96dB
Isolation		≥23dB	≥24dB	≥25dB	≥26dB	≥28dB
PIM : IM3	≤-150 dBc	13-UEAC313-O1	13-UEAC315-O1	13-UEAC320-O1	13-UEAC330-O1	13-UEAC340-O1
	≤-155 dBc	13-UEAC513-O1	13-UEAC515-O1	13-UEAC520-O1	13-UEAC530-O1	13-UEAC540-O1
	≤-160 dBc	13-UEAC713-O1	13-UEAC715-O1	13-UEAC720-O1	13-UEAC730-O1	13-UEAC740-O1
Coupling Value		13dB	15dB	20dB	30dB	40dB
Coupling Tolerance		±1.0dB	±1.0dB	±1.0dB	±1.5dB	±1.5dB
Insertion Loss		≤0.66dB	≤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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## Electrical Specifications

Frequency Range	698-2700MHz
VSWR/Return Loss	≤1.25/ -19dB
Power Rating	300 W
Impedance	50 Ω

## Mechanical Specifications

Connectors	DIN Female
Dimensions	121x43x25 mm
Weight	0.59kg
Color	Black

## Environmental Specifications

Temperature	- 20 C° ~ +70 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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