#### DATASHEET

## 13-UFEAXXX-01 | DIRECTIONAL COUPLER

Frequency: 698-4000MHz | Coupling Value: 5/6/7/8/10/13/15/20/30/40dB | Connector: N 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 698-4000Mhz. 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.

## **FEATURES**

- Wide working range from 698-4000Mhz.
- 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.

#### **Product**



## **TECHNICAL DATA**

Part Num	bers					
PIM : IM3	≤-150 dBc	13-UFEA305-O1	13-UFEA306-O1	13-UFEA307-O1	13-UFEA308-O1	13-UFEA310-O1
	≤-155 dBc	13-UFEA505-O1	13-UFEA506-O1	13-UFEA507-O1	13-UFEA508-O1	13-UFEA510-O1
	≤-160 dBc	13-UFEA705-O1	13-UFEA706-O1	13-UFEA707-O1	13-UFEA708-O1	13-UFEA710-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	≤1.15dB	≤0.96dB
Isolation		≥23dB	≥24dB	≥25dB	≥26dB	≥28dB
PIM: IM3	≤-150 dBc	13-UFEA313-O1	13-UFEA315-O1	13-UFEA320-O1	13-UFEA330-O1	13-UFEA340-O1
	≤-155 dBc	13-UFEA513-O1	13-UFEA515-O1	13-UFEA520-O1	13-UFEA530-O1	13-UFEA540-O1
	≤-160 dBc	13-UFEA713-O1	13-UFEA715-O1	13-UFEA720-O1	13-UFEA730-O1	13-UFEA740-O1
Coupling Value		13dB	15dB	20dB	30dB	40dB
Coupling Tolerance		±1.0dB	±1.0dB	±1.0dB	±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

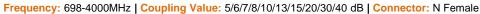
Disclaimer: All images are for reference purposes only

Revised | B.1.1

Important Notice: Information contained in this data sheet is believed to be reliable at the date of issue, however accuracy and completeness is not guaranteed. Bridge Components holds the right to change the product specifications without notice.

### DATASHEET

# 13-UFEAXXX-01 | DIRECTIONAL COUPLER



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



Electrical Specifications	
Frequency Range	698-4000MHz
VSWR/Return Loss	≤1.25/ -19dB
Power Rating	300 W
Impedance	50 Ω

Mechanical Specifications	
Connectors	N Female
Dimensions	126x43x25 mm
Weight	0.53kg
Color	Black

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

Installation Specifications	
Installation Method	Wall Mounting

Unit measurements in  $\mbox{\it mm}$ 

Disclaimer: All images are for reference purposes only

Revised | B.1.1

Important Notice: Information contained in this data sheet is believed to be reliable at the date of issue, however accuracy and completeness is not guaranteed. Bridge Components holds the right to change the product specifications without notice.