

DATASHEET

12-UCFXX33-01 | HYBRID COMBINER

Frequency: 550-4200MHz | Port Matrix: 3X3 | Connector: N/4.3-10/DIN Female | PIM: -150/-155/-160dBc

Usage: Indoor & Outdoor | Power: 300/500W

OVERVIEW

BRIDGE Hybrid Coupler/Combiner is the product to fast combine three signals and mix them as output, without requirement of guard band to those three signals. It is simple combiner but with basic isolation requirement to avoid extra interference. In coverage system, usually is used at the front side or end side of system.

BRIDGE Hybrid Coupler/Combiner uses wide band technology to coverage the wide band range signals from 550-4200Mhz. It reaches -160dBc PIM value by Low PIM and fully plating technology, which is good to provide high data transmission coverage needs. It is widely used in 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

- 3X3 ports and wide working range from 550-4200MHz.
- Typical 5dB split loss plus the low insertion loss.
- 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



Unit measurements in mm

[Disclaimer: All images are for reference purposes only](#)

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.

TECHNICAL DATA

Part Number

Connector Type	N Female	4.3-10 Female	DIN Female	
PIM:IM3 (2x43dBm)	≤-150dBc	12-UCFA333-01	12-UCFE333-01	12-UCFC333-01
	≤-155dBc	12-UCFA533-01	12-UCFE533-01	12-UCFC533-01
	≤-160dBc	12-UCFA733-01	12-UCFE733-01	12-UCFC733-01

Electrical Specifications

Frequency Range	550-4200MHz		
Insertion loss	≤5.1±1.5dB		
Return loss	≤1.25/-19dB		
Isolation	≥22dB @550-698MHz ≥20dB @1710-4200MHz		
Power Rating	300W	300W	500W
Impedance	50Ω		

Mechanical Specifications

Port Matrix	3 x 3		
Dimensions	385 X 179 X 40mm		
Weight	3.5kg	3.5kg	3.7kg
Color	Black		

Environmental Specifications

Temperature	-40°C~+65°C
Humidity	≤95%
IP Rating	IP65, Indoor & Outdoor

Installation Specifications

Installation Method	Wall Mounting
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