

DATASHEET

12-UCFXX21-O1 | 2 : 1 HYBRID COMBINER

Frequency: 550-4200MHz | Port Matrix: 2x1 | Connector: N/4.3-10/DIN Female | PIM: -150/-155/-160dBc

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



OVERVIEW

BRIDGE Hybrid Coupler is the product to fast combine two signals and mix them as output, and without requirement of guard band to those two 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 is using wide band technology to coverage the wide band range signals from 550-4200Mhz. 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.

FEATURES

- 2X1 ports and wide working range from 550-4200Mhz.
- Typical 3dB 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



TECHNICAL DATA

Part Number

Connectors		N Female	4.3-10 Female	DIN Female
PIM:IM3 (2x43dBm)	≤-150dBc	13-UCFA321-O1	13-UCFE321-O1	13-UCFC321-O1
	≤-155dBc	13-UCFA521-O1	13-UCFE521-O1	13-UCFC521-O1
	≤-160dBc	13-UCFA721-O1	13-UCFE721-O1	13-UCFC721-O1

Electrical Specifications

Frequency Range	550-4200MHz		
Insertion loss	3.1±0.8dB		
VSWR/ Return loss	≤1.25/ -19dB		
Isolation	≥22dB		
Power Rating	300W	300W	500W
Impedance	50Ω		

Mechanical Specifications

Port Matrix	2x1		
Dimensions	176x176x107mm		
Weight	5.3kg	5.3kg	5.5kg
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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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.