DATASHEET

13-UFCAXXX-01 | DIRECTIONAL COUPLER

Frequency: 698-3800MHz | 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 698-3800Mhz. 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 698-3800Mhz.
- 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 Numbers | | | | | | |
|--------------------|-----------|---------------|---------------|---------------|---------------|---------------|
| PIM : IM3 | ≤-150 dBc | 13-UFCA305-O1 | 13-UFCA306-O1 | 13-UFCA307-O1 | 13-UFCA308-O1 | 13-UFCA310-O1 |
| | ≤-155 dBc | 13-UFCA505-O1 | 13-UFCA506-O1 | 13-UFCA507-O1 | 13-UFCA508-O1 | 13-UFCA510-O1 |
| | ≤-160 dBc | 13-UFCA705-O1 | 13-UFCA706-O1 | 13-UFCA707-O1 | 13-UFCA708-O1 | 13-UFCA710-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 | ≥23dB | ≥23dB | ≥26dB |
| PIM:IM3 | ≤-150 dBc | 13-UFCA313-O1 | 13-UFCA315-O1 | 13-UFCA320-O1 | 13-UFCA330-O1 | 13-UFCA340-O1 |
| | ≤-155 dBc | 13-UFCA513-O1 | 13-UFCA515-O1 | 13-UFCA520-O1 | 13-UFCA530-O1 | 13-UFCA540-O1 |
| | ≤-160 dBc | 13-UFCA713-O1 | 13-UFCA715-O1 | 13-UFCA720-O1 | 13-UFCA730-O1 | 13-UFCA740-O1 |
| Coupling Value | | 13dB | 15dB | 20dB | 30dB | 40dB |
| Coupling Tolerance | | ±1.0dB | ±1.0dB | ±1.0dB | ±1.5dB | ±1.6dB |
| Insertion Loss | | ≤0.96dB | ≤0.44dB | ≤0.34dB | ≤0.30dB | ≤0.28dB |
| Isolation | | ≥26dB | ≥30dB | ≥35dB | ≥43dB | ≥45dB |

Unit measurements in mm

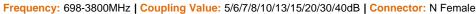
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Important Notice: Information contained in this data sheet is believed to be reliable at the date of issue, however accuracy and completeness is not guaranteed. Bridge Components holds the right to change the product specifications without notice.

DATASHEET

13-UFCAXXX-O1 | DIRECTIONAL COUPLER



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



| Electrical Specifications | |
|---------------------------|-------------|
| Frequency Range | 698-3800MHz |
| VSWR/Return Loss | ≤1.25/-19dB |
| Power Rating | 300 W |
| Impedance | 50 Ω |

| Mechanical Specifications | | |
|---------------------------|--------------|--|
| Connectors | N Female | |
| Dimensions | 126x45x25 mm | |
| Weight | 0.53kg | |
| Color | Black | |

| Environmental Specifications | | | |
|------------------------------|---------------------------|--|--|
| Temperature | - 20 C° ~ +70 C° | | |
| Humidity | ≤95% | | |
| IP Rating | IP65 (Indoor and Outdoor) | | |

| Installation Specifications | |
|-----------------------------|---------------|
| Installation Method | Wall Mounting |

Unit measurements in mm

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