

## MAIN FEATURES

- ❖ Ideal for combining 700/800/900MHz bands
- ❖ Low VSWR, low insertion loss and PIM
- ❖ High rejection between bands
- ❖ High power handling capability
- ❖ Rugged, high reliability design
- ❖ Weather-proof housing



## DESCRIPTION

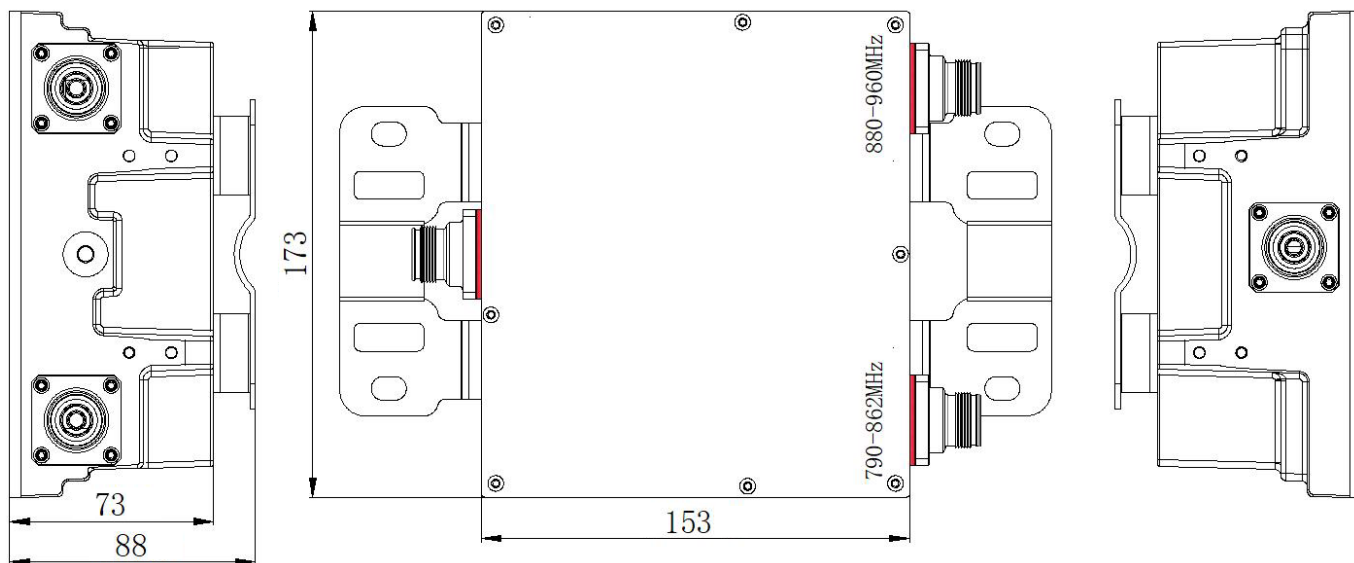
This multi-band cavity diplexer is a high-quality, high-power device which can be used effectively to combine and separate of the signals in wireless bands at mobile base stations and similar applications. Attention to mechanical design and plating ensures guaranteed low passive intermodulation. Low insertion loss, low return loss and the robust mechanical construction guarantee long-term trouble-free operation.

## SPECIFICATIONS

RF PARAMETERS		
Frequency range	Port1 790 – 862 MHz	Port2 880 – 960 MHz
Insertion loss	0.5 dB max.	0.5 dB max.
Return loss	19 dB min., 21 dB typ.	19 dB min., 21 dB typ.
Isolation	50 dB min.	50 dB min.
Maximum input power	300 W	300 W
Measured 3rd order IM products	≤ -160 dBc @ 2 x 43 dBm	
Impedance	50 Ω	
MECHANICAL PARAMETERS		
Connectors	4.3-10 – female	
Dimensions (Without connectors & mounting bracket)	153 x 173 x 73 mm (see outline dimensions)	
Mounting	With hose clamp & mounting bracket	
Colour	Light Grey (RAL 7047)	
ENVIRONMENTAL PARAMETERS		
Operating temperature range	-20 °C ... +55 °C	
Storage temperature range	-35 °C ... +85 °C	
Degree of protection	IP65 (Outdoor)	

Specifications are subject to change without notice.

### OUTLINE DRAWING (mm)



### ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BFDU12K11465	BFDU12 790-862 MHz / 880-960 MHz, 300 W, diplexer, 4.3-10 female connector

### DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BFDU12-LM-K11465	V02	2025-02-13