BFDP52
High Power Multi-band Diplexer

MAIN FEATURES



- Ideal for combining 400/700/900 and 1800/2600MHz 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.

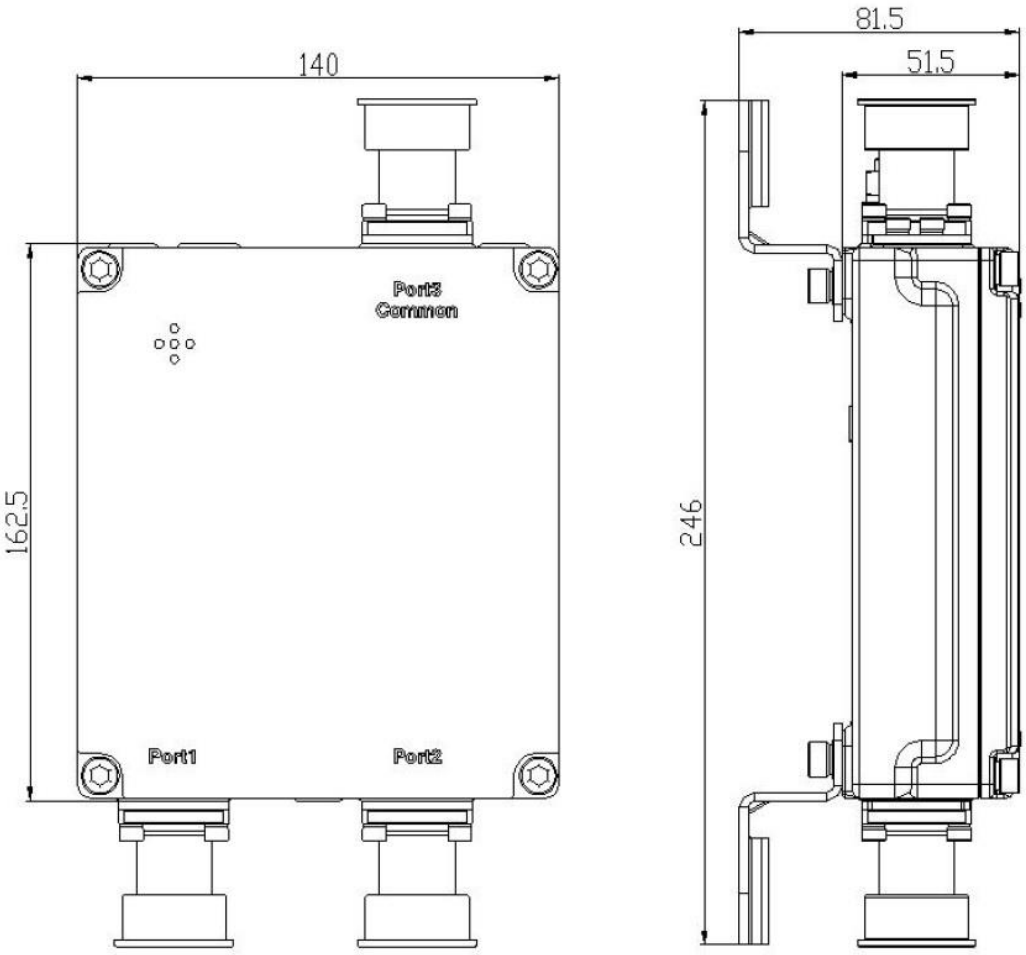
SPECIFICATIONS

RF PARAMETERS		
Frequency range	Port1 380 – 960 MHz	Port2 1710 – 2700 MHz
Insertion loss	0.4 dB max.	0.4 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)	162.5 x 140 x 51.5 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.

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OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BFDP52K11263	BFDP52 380-960 MHz / 1710-2700 MHz, 300W, diplexer, 4.3-10 female connector

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BFDP52-LM-K11263	V03	2024-02-13