

MAIN FEATURES

- ❖ Ideal for combining 400/700/900/1800/2600 MHz bands
- ❖ Low VSWR, low insertion loss and PIM
- ❖ High rejection between bands
- ❖ High power handling capability
- ❖ Rugged, high reliability design
- ❖ Weather-proof housing



DESCRIPTION

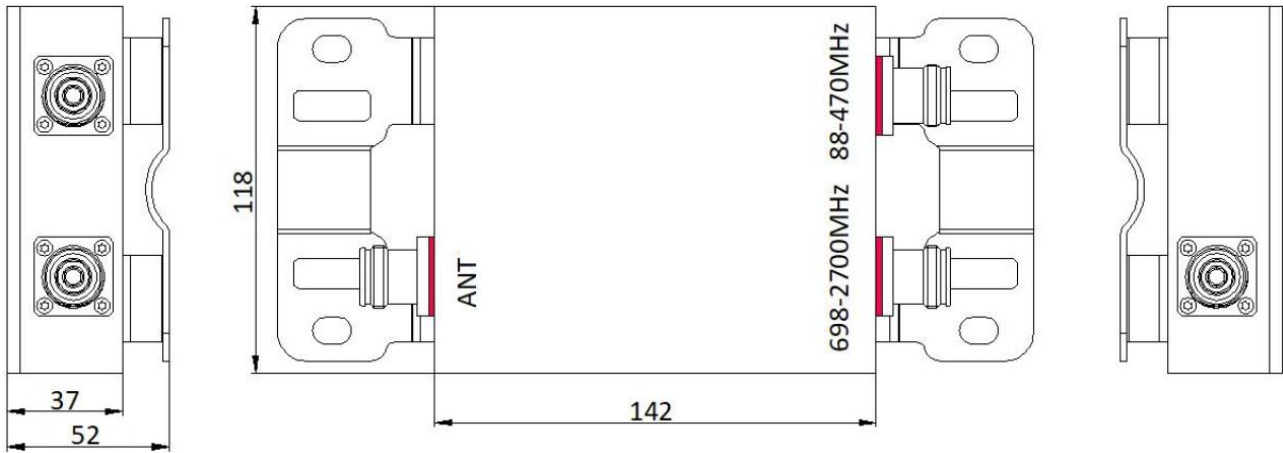
This multi-band cavity diplexer is a high quality, high power device which can be used effectively to combine and separate of the signals in wireless bands at mobile base stations and similar applications. Attention to mechanical design and plating ensures guaranteed low passive intermodulation. Low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

SPECIFICATIONS

RF PARAMETERS		
Frequency range	Port1 88 – 470 MHz	Port2 698 – 2700 MHz
Insertion loss	0.5 dB max.	0.5 dB max.
Return loss	17.5 dB min., 21 dB typ.	17.5 dB min., 21 dB typ.
Isolation	40 dB min.	40 dB min.
Maximum input power	200 W	200 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)	142 x 118 x 37 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
BFDP57K11277	BFDP57 88-470 MHz / 698-2700 MHz, 200W, diplexer, 4.3-10 female connector

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BFDP57-LM-K11277	V03	2024-02-13