Diplexer for the 0 - 225 MHz and 330 - 1300 MHz Ranges

DESCRIPTION

- Diplexer for combining or splitting the two ranges 0 - 225 MHz and 330 - 1300 MHz.
- Excellent wide-band coverage – usable for a lot of applications.
- Extremely small dimensions.
- Quick installation using dual-adhesive pad provided.
- FME-connections on all terminals.

ORDERING

Type	Product No.
DIPX 225/330	200000670

SPECIFICATIONS

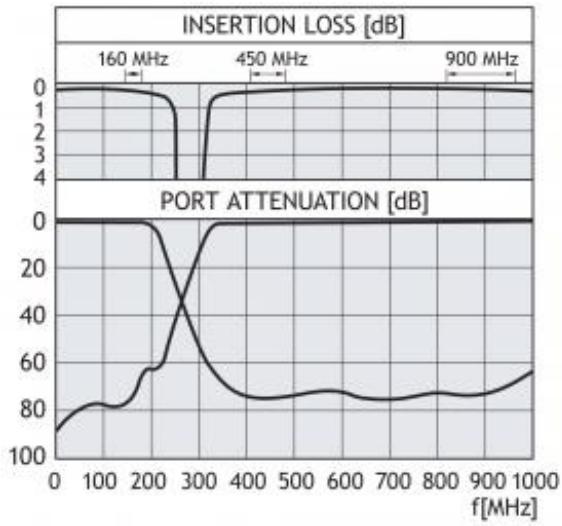
Electrical	
Model	DIPX 225/330
Frequency	Low port : 0 - 225 MHz High port : 330 - 1300 MHz
Max. Input Power	35 W
Insertion Loss	0 - 225 MHz : = 0.7 dB 330 - 1300 MHz: = 0.7 dB
Impedance	50 Ω
Isolation	Low to high port: = 40 dB

Mechanical	
Connection(s)	Low : FME High : FME Antenna: FME
Dimensions	50 x 21 x +50 mm
Weight	0.062 kg / 0.14 lb

Environmental	
Operating Temperature Range	-30°C to +70°C

ADDITIONAL DATA

TYPICAL RESPONSE CURVES



The DIPX 225/330 makes it possible to use only one antenna for the operation of two transceivers (one in each range). See the figure below. The antenna must be a dual-frequency antenna, e.i. it must be resonant on the actual frequencies in the two bands.

The transceivers may be used independently and will have no degrading influence on each other. Typically, the diplexer is installed next to the transceivers and only one cable is used between the diplexer and the antenna. The diplexer is suitable both for base station and mobile use.

The main tasks of the diplexer are to protect the individual receiver input from being destroyed by the transceiver in the contrary band and to ensure a lowloss path between the transceiver and the antenna which is not loaded by the other branch.
The diplexer can be operated together with any set of transceivers operating
within the 0 - 225 MHz and 330 - 1300 MHz frequency bands.

Dual-frequency antennas are available for both mobile and base station applications.