

Diplexer for the 0 - 240 MHz and 330 - 1300 MHz  
Ranges

DESCRIPTION

- Diplexer for combining or splitting the two ranges 0 - 240 MHz and 330 - 1300 MHz.
- Excellent wide-band coverage – usable for a lot of applications.
- Extremely small dimensions.
- FME-connections on all terminals.
- Two mounting options available:
  - Dual-adhesive pad for quick installation.
  - Mounting brackets with ø3.2 mm holes for screw mounting.



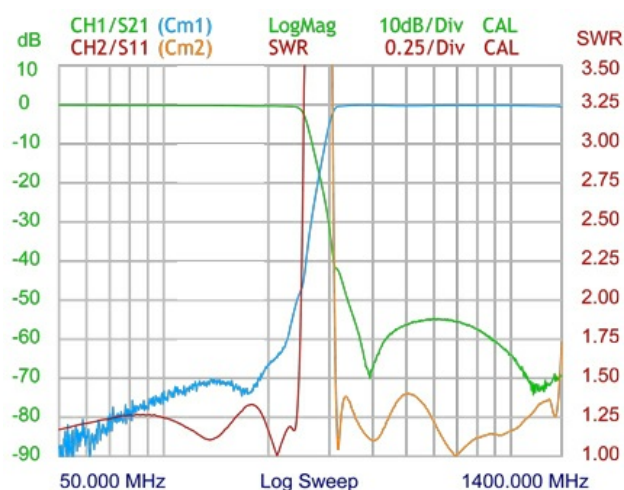
SPECIFICATIONS

Electrical	
Model	DIPX 240/330-...
Frequency	Low port : 0 - 240 MHz High port : 330 - 1300 MHz
Max. Input Power	35 W
Insertion Loss	0 - 240 MHz : ≤ 0.8 dB 330 - 1300 MHz : ≤ 0.8 dB
Impedance	50 Ω
Isolation	Low to high port: 40 dB
VSWR	< 1.5:1
Mechanical	
Connection(s)	Low : FME High : FME Antenna: FME
Dimensions	50 x 21 x 50 mm / 1.97 x 0.83 x 1.97 in.
Weight	Approx. 0.062 kg / 0.14 lb.
Environmental	
Operating temperature range	-30 °C to +70 °C
Ingress Protection	IP41

ORDERING

Model	Product No.	Description
DIPX 240/330	200002654	Dual-adhesive pad
DIPX 240/330-M	200002655	Mounting brackets

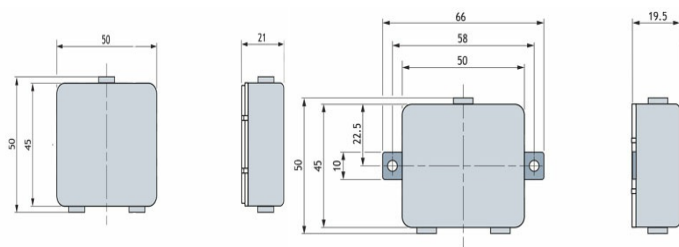
## TYPICAL RESPONSE CURVE



## MOUNTING DETAILS

Two-adhesive pad for quick installation.

Mounting bracket with  $\varnothing 3.2$  mm holes for screw mounting.



All dimensions are given in mm.

## INSTALLATION

The DIPX 240/330 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 - 240 MHz and 330 - 1300 MHz frequency bands.

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

