

## Diplexer for the 0 - 175 MHz and 380 - 510 MHz Ranges

### DESCRIPTION

- Diplexer for combining or splitting the two ranges 0 - 175 MHz and 380 - 510 MHz.
- Excellent wide-band coverage – usable for a lot of applications.
- N-connections on all terminals.
- The diplexer comes in two versions: MAMO for Mast Mount and WAMO for Wall Mount.



### SPECIFICATIONS

Electrical	
Model	PRO-DIPX 175/380-...
Frequency	Low port : 0 - 175 MHz High port : 380 - 510 MHz
Max. Input Power	200 W
Insertion Loss	< 0.5 dB, typ. 0.3 dB
Impedance	50 Ω
Isolation	> 45 dB
VSWR	< 1.5:1

Mechanical	
Connection(s)	Low : N(f) High : N(f) Antenna : N(f)
Dimensions	160 x 113 x 88 mm / 6.30 x 4.45 x 3.46 in.
Weight	Approx. 0.5 kg / 1.10 lb.

Environmental	
Operating Temperature Range	-20 °C to +50 °C

### ORDERING

Model	Product No.	Description
PRO-DIPX 175/380-MAMO	200000726	Mast mountmax. Ø65mm
PRO-DIPX 175/380-WAMO	200001768	Wall mount

WAMO

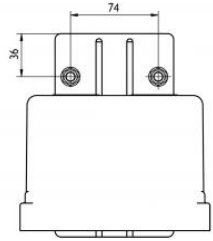


MAMO

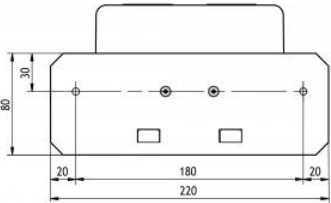


**MOUNTING DETAILS**

MAMO

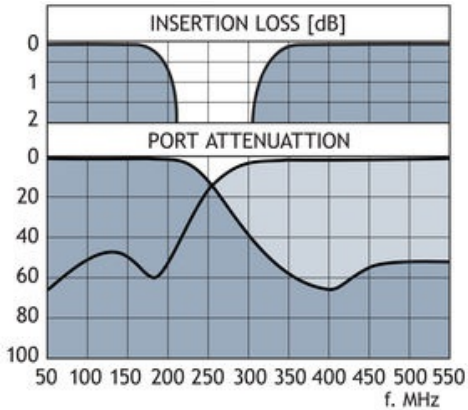


WAMO



All dimensions are given in mm [in.]

**TYPICAL RESPONSE CURVE**



**INSTALLATION**

The PRO-DIPX 175/380-MAMO/WAMO 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, that is, 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 low-loss 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 - 175 MHz and 380 - 510 MHz frequency bands.

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

