

Diplexer for the 0 - 1000 MHz and 1550 - 2700 MHz Ranges

DESCRIPTION

- Diplexer for combining or splitting the two ranges 0 - 1000 MHz and 1550 - 2700 MHz.
- Excellent wide-band coverage – usable for a lot of applications.
- Extremely small dimensions.
- Quick installation using the dual-adhesive pad provided.
- FME-connections on all terminals.
- DC pass on certain models. See ordering section.



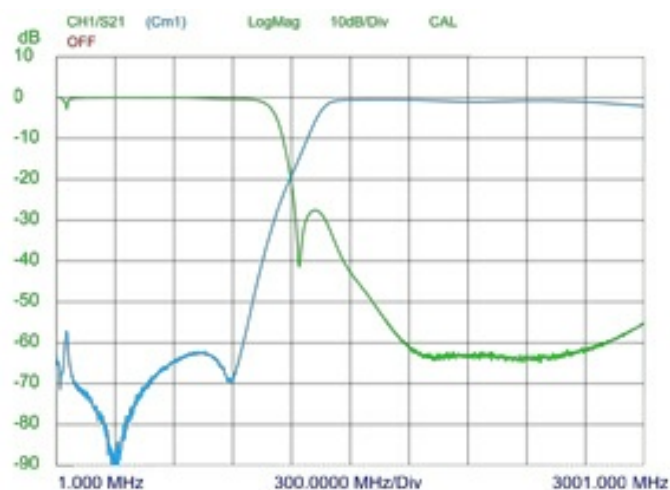
SPECIFICATIONS

Electrical	
Model	DIPX 1000/1550-...
Frequency	Low port : 0 - 1000 MHz High port : 1550 - 2700 MHz
Max. Input Power	35 W
Insertion Loss	0 - 1000 MHz : ≤ 0.8 dB typ. ≤ 0.6 dB 1550 - 2700 MHz : ≤ 1.1 dB typ. ≤ 0.7 dB
Impedance	50 Ω
Isolation	Low to high port: ≥ 45 dB
DC pass max. current	DC pass LOW port to ANT port : 1 A (Applies only to certain models. See Ordering) DC pass HIGH port to ANT port : 200 mA (Applies only to certain models. See Ordering)
Mechanical	
Connection(s)	Low : FME High : FME Antenna: FME
Dimensions	50 x 21 x 50 mm / 1.96 x 0.82 x 1.96 in.
Weight	Approx. 0.06 kg / 0.13 lb.
Environmental	
Operating temperature range	-30 °C to +70 °C

ORDERING

Model	Product No.	Description
DIPX 1000/1550-DC-L	200000750	DC Pass : LOW port to ANT port
DIPX 1000/1550-DC-H	200000749	DC Pass : HIGH port to ANT port
DIPX 1000/1550-DC-LH	200000748	DC Pass : LOW and HIGH port to ANT port
DIPX 1000/1550-DC-NO	200002054	No DC pass

TYPICAL RESPONSE CURVE



INSTALLATION

The DIPX 1000/1550-... 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, i.e. 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 - 1000 MHz and 1550 - 2700 MHz frequency bands.

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

