

DIPX 1000/1550

Diplexer for the 0-1000 MHz and 1550-2500 MHz Ranges

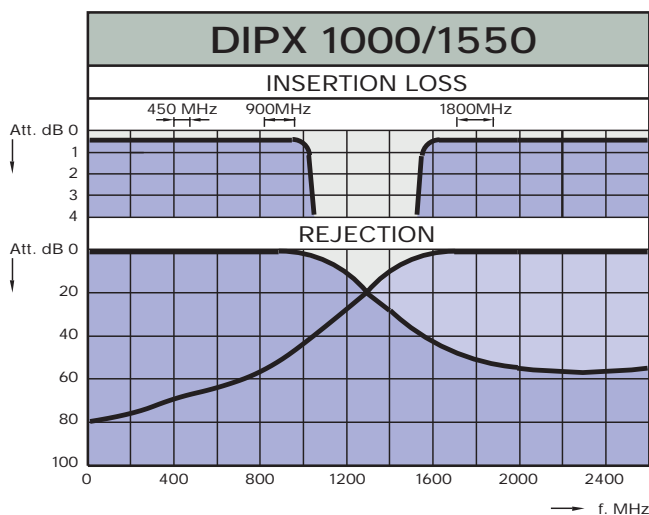


DESCRIPTION:

- ★ Diplexer for combining or splitting the two ranges 0-1000 MHz and 1550-2500 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.

SPECIFICATIONS:

ELECTRICAL	
FREQUENCY	Low port : 0-1000 MHz High port : 1550-2500 MHz
MAX. INPUT POWER	35 watt each port
INSERTION LOSS	0-1000 MHz : ≤ 0.5 dB 1550-2500 MHz : ≤ 0.5 dB
ISOLATION	Low to high port: ≥ 45 dB
IMPEDANCE	50 Ω on all terminals
MECHANICAL	
TEMP. RANGE	-30° C i +70° C
CONNECTORS	Low : FME High : FME Antenna: FME
DIMENSIONS (W x H x D)	50 x 21 x 50 mm
WEIGHT	Approx. 60 g



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, 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 0-1000 MHz and 1550-2500 MHz frequency bands. Dual-frequency antennas are available for both mobile and base station applications.

