



PRO-DIPX 1000/1550-... XS

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.
- N-connections on all ports.
- DC pass on certain models. See ordering section.

SPECIFICATION

Electrical	
Model	PRO-DIPX 1000/1550-... XS
Frequency	Low port : 0 – 1000 MHz High port : 1550 – 2500 MHz
Max. Input Power	35 W each port
Insertion Loss	0 – 1000 MHz : ≤ 0.8 dB typ. ≤ 0.6 dB 1550 – 2500 MHz : ≤ 1.0 dB typ. ≤ 0.8 dB
Impedance	50 Ω
Isolation	Low to high port : ≥ 45 dB typical 50 dB
VSWR	$\leq 1.5:1$ on all ports
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)
Environmental	
Operating temperature range	-30 °C to +70 °C
Ingress Protection	IP64
Mechanical	
Connection(s)	Low : N(f) High : N(f) Antenna : N(f)
Historic Brand	Amphenol Procom
Dimensions	96 x 32 x 80 mm / 3.78 x 1.26 x 3.15 in.
Weight	Approx. 0.35 kg / 0.77 lb.

Mounting

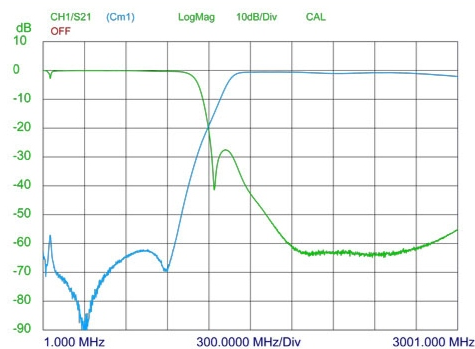
4.3 mm dia. / 0.17 in. dia. (4 holes)

ORDERING CODES

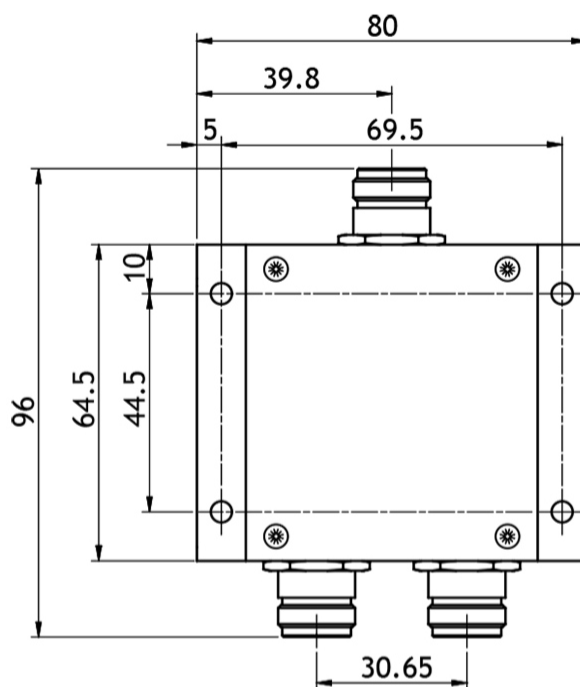
Model	Product No.	Additional Information
PRO-DIPX 1000/1550-DC-L XS	200001622	DC Pass : LOW port to ANT port
PRO-DIPX 1000/1550-DC-H XS	200001998	DC Pass : HIGH port to ANT port
PRO-DIPX 1000/1550-DC-LH XS	200001999	DC Pass : LOW and HIGH port to ANT port
PRO-DIPX 1000/1550-NO-DC XS	200002000	No DC pass

ADDITIONAL INFORMATION

Typical Response curve



Mounting Details



All dimensions are given in mm.

Installation

The PRO-DIPX 1000/1550-... XS 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 – 2500 MHz frequency bands.

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

