

DUPLEXERS, DIPLEXERS AND POWER SPLITTERS

DPID 1800/18

Interdigital Base Station Duplexer



DESCRIPTION:

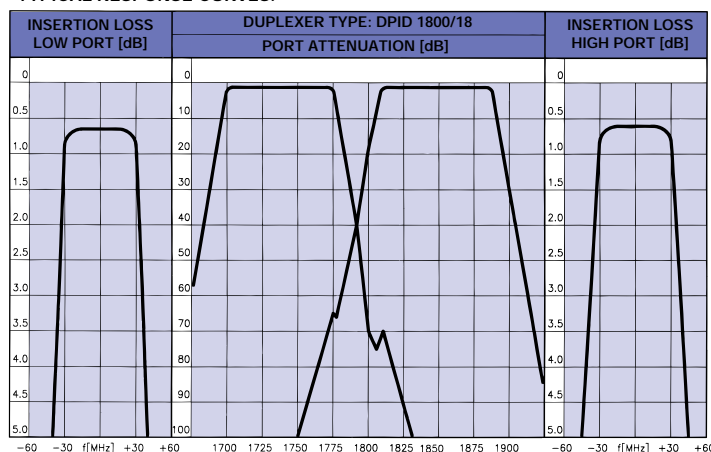
- ★ The DPID 1800/18 is an 18-resonator base station duplex filter designed to operate as a part of the combining systems on base station installations.
- ★ The duplexer consists of two interdigital band-pass filters, which are interconnected by a cross-over network.
- ★ The interdigital principles ensure that ripple and insertion loss figures are kept very low over the wide port widths, and that steep slopes immediately beside the pass ranges and heavy attenuation outside the pass ranges are realized.
- ★ The filter is capable of operating continuously at a power level of 200 watt.
- ★ The filter parts are mounted on an aluminium plate with thickness: 4 mm and dimensions: 266 x 483 mm. Total height is 36 mm. This assembly fits nicely into a 19" rack system.
- ★ Construction and choice of materials have been carried out to ensure that electrical characteristics are maintained over a long life-span despite the influence of environmental factors such as corrosion, temperature, humidity, shock and vibration.
- ★ The assembly is finished with a black, 2-component polyurethane coating.



SPECIFICATIONS:

ELECTRICAL	
FREQUENCY	TX: 1815–1868 MHz RX: 1710–1773 MHz
MAX. INPUT POWER	200 watt
INSERTION LOSS	Both ports: ≤ 1.0 dB typ. ≤ 0.9 dB
TX-NOISE SUPPRESSION ON RX-FREQUENCY	> 70 dB
RX-ISOLATION ON TX-FREQUENCY	> 70 dB
OUT OF BAND REJECTION	960 MHz – 2 GHz: > 70 dB
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.4
MECHANICAL	
TEMP. RANGE	-30° C i $+60^{\circ}$ C
CONNECTORS	N-female or 7/16-female
DIMENSIONS (L x W x H)	266 x 483 x 36 mm
WEIGHT	Approx. 6.1 kg

TYPICAL RESPONSE CURVES:



PROCOM A/S reserve the right to amend specifications without prior notice.