

Diplexer Cellular and Wi-Fi

7501.17.0011

Properties

- To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss
- -140 dBc PIM @ 2x43 dBm
- N female interfaces
- Meets European Rail Standards EN50121, EN50155: 2001, EN61373: 1999, EN60068-2-1: 1995, EN60068-2-2: 1994, EN60068-2-30: 2000



Port defenition (common)

Port designation	Interface	Gender	Impedance
J3	N	jack (female)	50 Ω

Electrical bands

	Band 1	Band 2
Frequency range	80 MHz ... 2170 MHz	2.4 GHz ... 2.5 GHz
Return loss	≥ 14 dB	≥ 14 dB
Insertion loss	≤ 0.3 dB	≤ 0.6 dB
Composit power max	150 W	8 W
Peak envelope power	3000 W	
Intermodulation distortion	≤ -140 dBc	≤ -140 dBc
@ 2 x carrier power	43 dBm	43 dBm
Port designation	J1	J2
Connector series	N	N
Gender	jack (female)	jack (female)

Electrical data (rejection)

Band to band	value
Band 1 to Band 2	≥ 50 dB

Electrical remarks

Remarks	Typical return loss for J1 and J2 in the range from 0 to 70°C: 17 dB Typical PIM level < -150 dBc @ 2 x 43 dBm carrier power.
---------	--

Diplexer Cellular and Wi-Fi
7501.17.0011

Mechanical data	
Weight	0.91 kg
Width	122.22 mm
Height	32.26 mm
Depth	179.71 mm
Housing material and surface treatment	Aluminium / Passivated

Environmental data	
Environment (application)	Indoor
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Transport temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP67

Ordering Information Table	
Item number	Item description
84045218	7501.17.0011

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver:
Facts and figures herein are for information only and do not represent any warranty of any kind.

DOCUMENT PIM-P1425 / Date of publication: 25.04.2025 / uncontrolled copy