Data Sheet

HUBER+SUHNER

WiFi 2.4 + 5 GHz injector 2501.17.0097

Description

This diplexer allows efficient combining of WiFi services at the standard WiFi standards of 802.11 (a), (b), (g) and (n) at 2.4 GHz and 5.8 GHz with security and/or cellular networks or DAS working in the range from 80 to 2170 MHz. This can provide the benefit of the same controlled coverage of the higher frequency services with the DAS.

Tapped holes are provided for simple mounting to a surface or cable tray.

This model has been designed and tested to meet the European Rail Standards:

EN50121

EN50155: 2001, EN61373: 1999

EN60068-2-1: 1995 EN60068-2-2: 1994 EN60068-2-30: 2000



Technical Data

Electrical Data

	Band 1	Band 2	Band 3
Frequency (MHz)	2.4 - 2.5 GHz	4.9 - 5.85 GHz	0.08 - 2.17 GHz
Insertion loss (dB)	1 dB	0.5 dB	0.7 dB
Return loss (dB)	15 dB	15 dB	17 dB
Band 1 Band 2			35 42 dB
Max. composite power	10 W	10 W	50 W
Intermodulation distortion	0 dBc	0 dBc	-161 dBc
@ 2 x carrier power	0 dBm	0 dBm	43 dBm
Port Designation	J1	J1	J2
Connector Type	N	N	N
Gender	jack (female)	jack (female)	jack (female)

Ports

Port designation J3

Connector N jack (female) Impedance 50 Ω

Typical loss J1-J3: 0.5 dB (2.4 - 2.5 GHz) and 0.25 dB (4.9 - 5.85 GHz)

Typical loss J2-J3: 0.2 dB DC path J1-J3: none DC path J2-J3: < 2.5 A

Mechanical Data

 Width
 84.1 mm

 Height
 32.4 mm

 Depth
 82.1 mm

 Weight
 0.365 kg

Environmental Data

Environmental conditions indoor

Operation temperature 0 °C to 55 °C

Storage temperature 0 °C to 55 °C

Transport temperature 0 °C to 55 °C

IP rating IP64

2011/65/EU (RoHS - including compliant

2015/863 and 2017/2102)

1907/2006/EC (REACH) compliant

Material Data

Housing Material Aluminium

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Surface treatment Passivated

Related Documents

 Outline drawing
 DOU-00286697

 3D-model (Step)
 DOC-0000686223

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

www.hubersuhner.com

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.