### **Data Sheet**

## **HUBER+SUHNER**

# WiFi 5 GHz injector 2501.17.0095

#### **Description**

The diplexer allows efficient combining of 5 GHz W-LAN designed to 802.11(a) and similar systems, with a coaxial distributed in-building cellular network or DAS working in the range from 80 to 2690 MHz. The unit has an extremely broad frequency range with minimal loss for maximum flexibility. This can provide the benefit of the same controlled coverage of the higher frequency services with the DAS.

The diplexer has been designed to be small and lightweight, using passive, proprietary techniques to ensure minimal loss and very high reliability. A simple bracket and 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 Standard:

EN 50155:2001



#### **Technical Data**

#### **Electrical Data**

	Band 1	Band 2
Frequency (MHz)	0.08 - 2.69 GHz	3.3 - 5.85 GHz
Insertion loss (dB)	0.8 dB	0.8 dB
Return loss (dB)	17 dB	17 dB
Band 1		50 dB
Max. composite power	50 W	5 W
Intermodulation distortion	-150 dBc	-150 dBc
@ 2 x carrier power	43 dBm	43 dBm
Port Designation	J2	J1
Connector Type	N	N
Gender	jack (female)	jack (female)

**Ports** 

Port designation J3

 $\begin{array}{ll} \text{Connector} & \text{N jack (female)} \\ \text{Impedance} & 50 \ \Omega \end{array}$ 

Typical passband insertion loss 0.2 dB

Max current rating DC path J2 to J3: 1 A

Path J1 to J3: No DC path

Passband Isolation J1 to J2 for 2680 - 2690 MHz and 3300 - 3330 MHz band: 47 dB  $\,$ 

#### **Mechanical Data**

 Width
 133.07 mm

 Height
 37.91 mm

 Depth
 61.54 mm

 Weight
 0.37 kg

(trivalent chromates for conversion coating)

#### **Environmental Data**

Environmental conditions indoor
Operation temperature -40 °C to 80 °C
Storage temperature -40 °C to 80 °C
Transport temperature -40 °C to 80 °C
IP rating IP64

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2011/65/EU (RoHS - including 2015/863 and 2017/2102)

compliant

1907/2006/EC (REACH) compliant

**Material Data** 

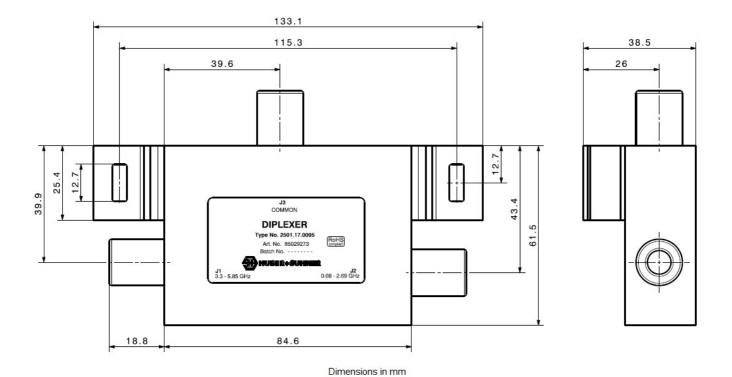
Housing Material Aluminium
Surface treatment Conversion coating

**Related Documents** 

 Outline drawing
 DOU-00287299

 3D-model (Step)
 DOC-0000687290

#### **Additional Information**



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.