

## 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
Connector	N jack (female)
Impedance	50 Ω

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

