

WiFi 2.4 GHz injector 7501.17.0011

Description

This diplexer links W-LAN designed to 802.11(b/g) with a coaxial distributed in-building cellular network or DAS working in the range from 80 to 2170 MHz. This gives W-LAN the benefit of the same controlled coverage as the DAS, eliminating many W-LAN uncertainties. To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss. The W-LAN Injector has been designed using passive, proprietary techniques to ensure minimal loss and high reliability. Corner 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 |
|----------------------------|-----------------|---------------|
| Frequency (MHz) | 0.08 - 2.17 GHz | 2.4 - 2.5 GHz |
| Insertion loss (dB) | 0.3 dB | 0.6 dB |
| Return loss (dB) | 14 dB | 14 dB |
| Insertion loss ripple | 0.1 dB | 0.1 dB |
| Band 1 | | 50 dB |
| Max. composite power | 150 W | 8 W |
| Peak envelope power | 3000 W | |
| Intermodulation distortion | -153 dBc | -153 dBc |
| @ 2 x carrier power | 43 dBm | 43 dBm |
| Port Designation | J1 | J2 |
| Connector Type | N | N |
| Gender | jack (female) | jack (female) |

Ports

| | |
|------------------|-----------------|
| Port designation | J3 |
| Connector | N jack (female) |
| Impedance | 50 Ω |

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.

Mechanical Data

| | |
|--------|-----------|
| Width | 122.22 mm |
| Height | 32.26 mm |
| Depth | 179.71 mm |
| Weight | 0.91 kg |

Environmental Data

| | |
|--------------------------|-----------------|
| Environmental conditions | indoor/outdoor |
| Operation temperature | -40 °C to 85 °C |
| Storage temperature | -40 °C to 85 °C |
| Transport temperature | -40 °C to 85 °C |

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IP rating
2011/65/EU (RoHS - including
2015/863 and 2017/2102)
1907/2006/EC (REACH)

IP67
compliant
compliant

Material Data

Housing Material
Surface treatment

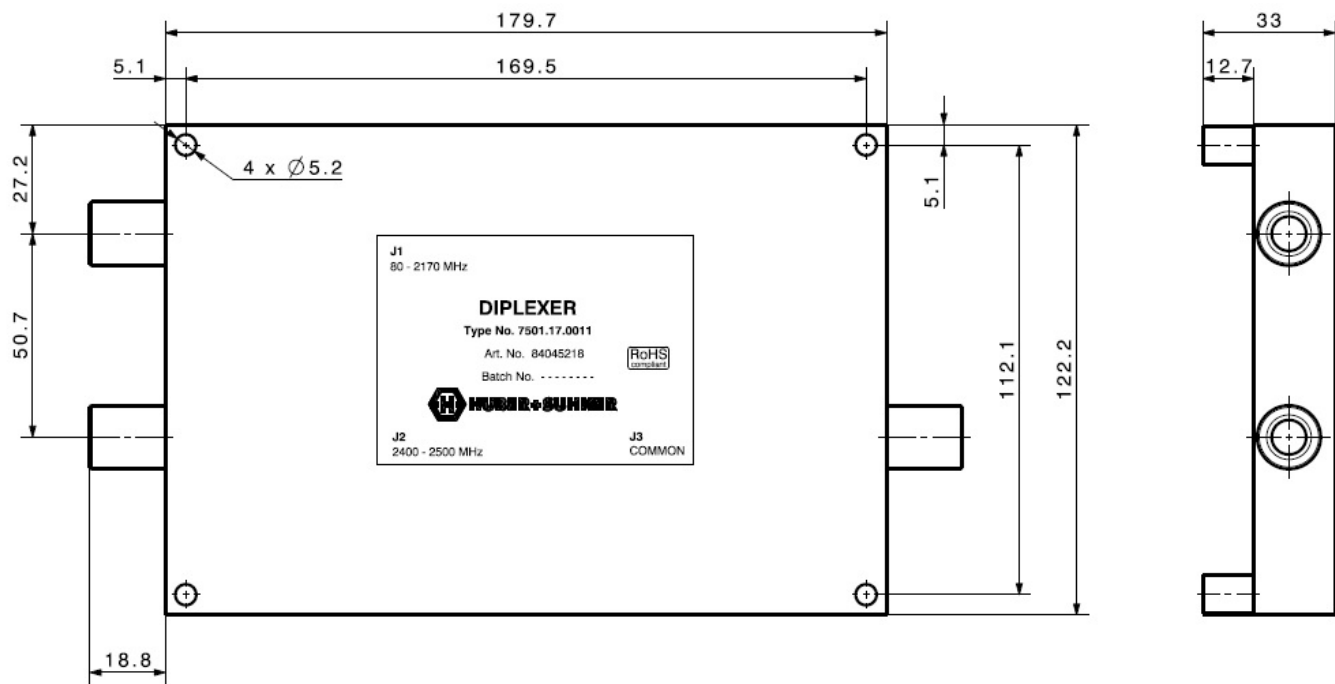
Aluminium
Passivated

Related Documents

Outline drawing
3D-model (Step)

DOU-00287022
DOC-0000403115

Additional Information



Dimensions in mm