Data Sheet

HUBER+SUHNER

TETRA injector
2501.17.0091

Description

Diplexer for combination and separation of the signals in 80 - 520 MHz and the 694 - 2700 MHz wireless bands.

To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. The diplexer is designed using passive, proprietary techniques for low loss, low PIM and high reliability.
Meets EN 50155 (Class T1).

Technical Data

Electrical Data

	Band 1	Band 2
Frequency (MHz)	0.08 - 0.52 GHz	0.694 - 2.7 GHz
Insertion loss (dB)	0.3 dB	0.5 dB
Return loss (dB)	16 dB	16 dB
Max. composite power	50 W	120 W
Peak envelope power	3000 W	3000 W
Intermodulation distortion	-161 dBc	-161 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

Return loss band 2, sub-band 960 - 1500 MHz: 12 dB

Isolation between port J1 (80 - 520 MHz) and port J2 (694 - 2700 MHz):
80 - 520 MHz: 50 dB
694 - 800 MHz: 40 dB
800 - 2500 MHz: 50 dB
2500 - 2700 MHz: 30 dB

Mechanical Data

Width	130.36 mm
Height	30.99 mm
Depth	177.02 mm
Weight	0.8 kg

Environmental Data

Environmental conditions	indoor
Operation temperature	-35 °C to 65 °C
Storage temperature	-35 °C to 65 °C
Transport temperature	-35 °C to 65 °C
IP rating	IP64
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Material Data

Housing Material	Aluminium

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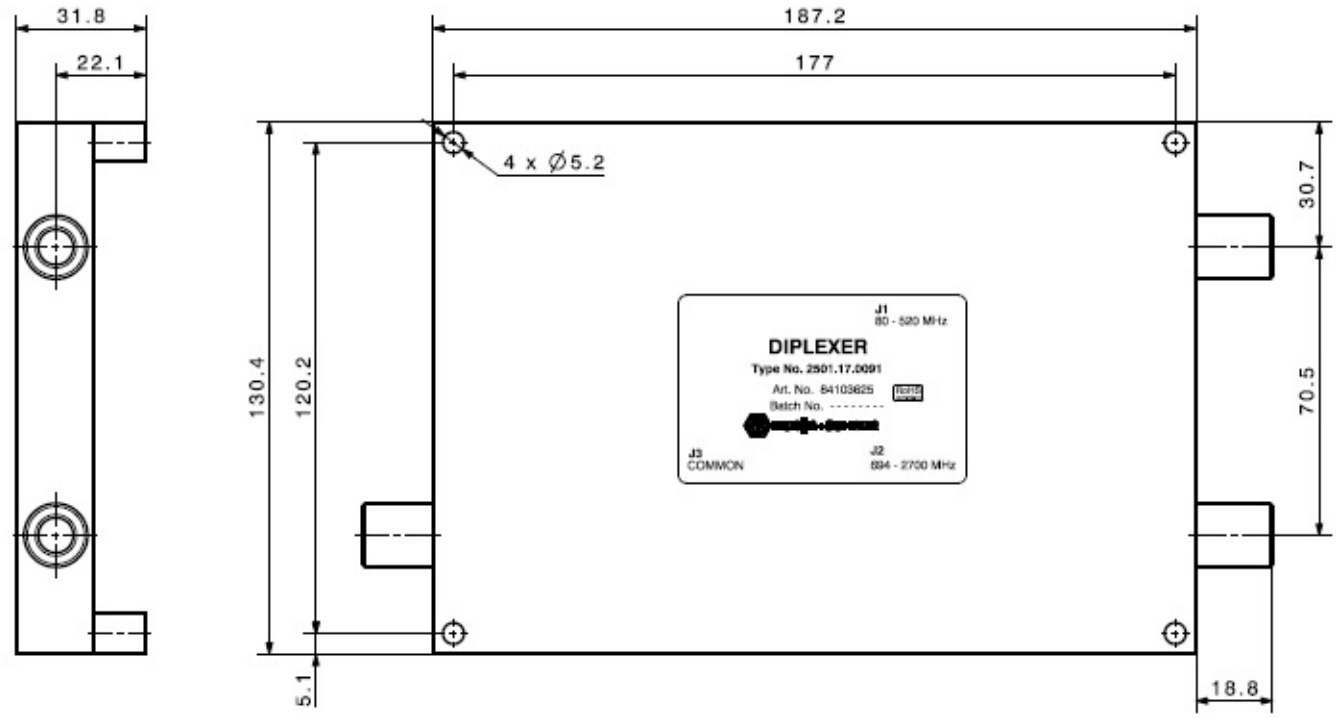
Surface treatment	passivated

Related Documents

Outline drawing	DOU-00285250
3D-model (Step)	DOC-0000369305

Additional Information



Dimensions in mm