Data Sheet

TETRA + cellular + WiFi diplexer
2501.17.0092

Description

Diplexer which allows combination and separation of signals in the 80 - 960 MHz and 1695 - 2700 MHz wireless bands.
To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. Attention to mechanical design ensures low passive intermodulation. The diplexer is designed using passive, proprietary techniques for low loss and high reliability.

Technical Data

Electrical Data

	Band 1	Band 2
Frequency (MHz)	0.08 - 0.96 GHz	1.695 - 2.7 GHz
Insertion loss (dB)	0.3 dB	0.5 dB
Return loss (dB)	20 dB	20 dB
Band 1		50 dB
Max. composite power	120 W	120 W
Peak envelope power	3000 W	3000 W
Intermodulation distortion	-155 dBc	-155 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

Current rating:
DC path J2 to J3: 2 A max.
DC path J1 to J3: isolated

PIM -161dBc typ.

Mechanical Data

Width	106.7 mm
Height	31.7 mm
Depth	122.3 mm
Weight	0.55 kg

Environmental Data

Environmental conditions	indoor
Operation temperature	-35 °C to 70 °C
Storage temperature	-35 °C to 70 °C
Transport temperature	-35 °C to 70 °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

Data Sheet

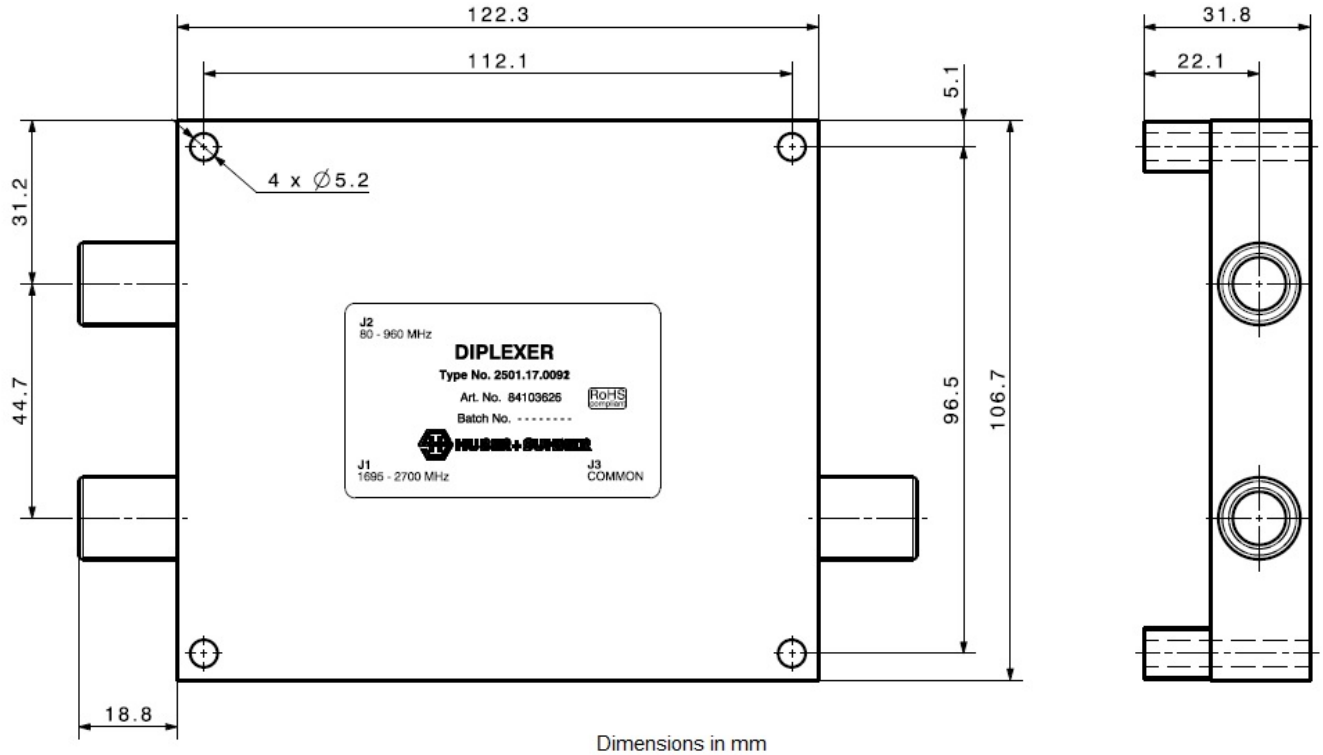
TETRA + cellular + WiFi diplexer
2501.17.0092

Surface treatment	passivated

Related Documents

Outline drawing	DOU-00285225
3D-model (Step)	DOC-0000369306

Additional Information



Dimensions in mm