

380-960 / 1710-1880 / 1920-2170 / 2500-2690 MHz
2501.41.0100

Description

2501.17.0100 is a 4 port quadraplexer which allows combination and separation of the signals in 380-960 / 1710-1880 / 1920-2170 / 2500-2690 MHz wireless bands. To minimize band inter-reaction, the inputs have an isolation > 50dB and have minimal insertion loss < 0.3 dB over their respective frequency bands.



Technical Data

Electrical Data

	Band 1	Band 2	Band 3	Band 4
Frequency (MHz)	0.38 - 0.96 GHz	1.71 - 1.88 GHz	1.92 - 2.17 GHz	2.5 - 2.69 GHz
Insertion loss (dB)	0.3 dB	0.3 dB	0.3 dB	0.3 dB
Return loss (dB)	18 dB	18 dB	18 dB	18 dB
Group delay	0.1 µs	0.25 µs	0.25 µs	0.25 µs
Group delay distortion	5 ns	20 ns	20 ns	20 ns
Band 1 Band 2 Band 3		50 dB	50 50 dB	50 50 50
Max. composite power	700 W	300 W	200 W	200 W
Peak envelope power	1500 W	1500 W	1500 W	1500 W
Intermodulation distortion	-155 dBc	-155 dBc	-155 dBc	-155 dBc
@ 2 x carrier power	43 dBm	43 dBm	43 dBm	43 dBm
Port Designation	PORT 1	PORT 2	PORT 3	PORT 4
Connector Type	7/16	7/16	7/16	7/16
Gender	jack (female)	jack (female)	jack (female)	jack (female)

Ports

Port designation	PORT 5
Connector	7/16 jack (female)
Impedance	50 Ω

Typical intermodulation values -160dBc

DC/AISG bypass

Mechanical Data

Width	223 mm
Height	232 mm
Depth	50 mm
Weight	4.6 kg

Dimensions without bracket and connectors (see drawing)

Environmental Data

Environmental conditions	indoor/outdoor
Operation temperature	-40 °C to 65 °C
Storage temperature	-40 °C to 65 °C
Transport temperature	-40 °C to 65 °C
IP rating	IP67
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

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Material Data

Housing Material	Aluminium
Surface treatment	Black Paint

Related Documents

Outline drawing	DOU-00319165
3D-model (Step)	DOC-0000735150