

Quadruplexer

2501.41.0100

Properties

- This is a 4 port quadruplexer 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 of 0.3 dB over the respective frequency bands



Port defenition (common)			
Port designation	Interface	Gender	Impedance
Port 5	7/16	jack (female)	50 Ω

Electrical bands				
	Band 1	Band 2	Band 3	Band 4
Frequency range	380 MHz ... 960 MHz	1710 MHz ... 1880 MHz	1920 MHz ... 2170 MHz	2500 MHz ... 2690 MHz
Return loss	≥ 18 dB	≥ 18 dB	≥ 18 dB	≥ 18 dB
Insertion loss	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB
Composit power max	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 series	7/16	7/16	7/16	7/16
Gender	jack (female)	jack (female)	jack (female)	jack (female)

Electrical data (rejection)	
Band to band	value
Port to Port Isolation	≥ 50 dB

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Electrical remarks	
Remarks	Typical intermodulation values -160dBc
	DC bypass all ports, max2500mA
	DC/AISG bypass
Mechanical data	
Weight	4.6 kg
Width	223 mm
Height	232 mm
Depth	50 mm
Housing material and surface treatment	Aluminium / Black paint
Remarks	Dimensions without bracket and connectors (see drawing)
Environmental data	
Environment (application)	Indoor/Outdoor
Operation temperature	-40 °C ... 65 °C
Storage temperature	-40 °C ... 65 °C
Transport temperature	-40 °C ... 65 °C
Ingress protection (IP Rating)	IP67
Ordering Information Table	
Item number	Item description
85070953	2501.41.0100

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