DATA SHEET

Diplexer Wi-Fi

2501.17.0095

Properties

- Combines 5 GHz W-LAN & WiMax to other DAS services
- 50 W Power handling
- Meets European Rail Standards EN50155:2007 (Class T3)
- IP64 rating
- A simple bracket and tapped holes are provided for simple mounting to a surface or cable tray.

Port defenition (common)			
Port designation	Interface	Gender	Impedance
J3	N	jack (female)	50 Ω

Electrical bands		
	Band 1	**Band 2**
Frequency range	80 MHz ... 2690 MHz	3300 MHz ... 6000 MHz
Return loss	≥ 17 dB	≥ 17 dB
Insertion loss	≤ 0.8 dB	≤ 0.8 dB
Composit power max	50 W	5 W
Intermodulation distortion	≤ -150 dBc	≤ -150 dBc
@ 2 x carrier power	43 dBm	43 dBm
Port designation	J2	J1
Connector series	N	N
Gender	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 passband insertion loss 0.2 dB J1 to J2 Isolation: >50dB in band except near cross over Isolation J1 to J2 for 2680 - 2690 MHz and 3300 - 3330 MHz band: Isolation>47 dB Isolation J1 to J2: >47 dB 5850-6000 MHz Passband J1 to J3: 3'300 - 6'000 MHz Passband J2 to J3: 80 - 2'690 MHz VSWR, all ports: < 1.3:1 Intermod. Distortion: < 150dBc (test with 2x +43 dBm tones) J2-J3 Power Rating: 50W avg. max, DC of<1A J1-J3 Power Rating: 5W avg. max, no DC path

Mechanical data	
Weight	0.382 kg
Width	133.07 mm
Height	37.91 mm
Depth	61.54 mm
Housing material and surface treatment	Aluminium / Conversion coating
Remarks	(trivalent chromates for conversion coating)

Environmental data	
Environment (application)	Indoor
Operation temperature	-40 °C ... 80 °C
Storage temperature	-40 °C ... 80 °C
Transport temperature	-40 °C ... 80 °C
Ingress protection (IP Rating)	IP64

Ordering Information Table	
Item number	Item description
85029273	2501.17.0095

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