

Diplexer Cellular and Wi-Fi

2501.17.0094

Properties

- Combines W-LAN and Cellular on same Distributed Antenna System
- To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss. The W-LAN Injector has been designed using passive, proprietary techniques to ensure minimal loss and high reliability.
- Corner holes are provided for simple mounting to a surface or cable tray.



Port definition (common)

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

Electrical bands

	Band 1	Band 2
Frequency range	2400 GHz ... 2500 GHz	80 GHz ... 2170 GHz
Return loss	≥ 17 dB	≥ 17 dB
Insertion loss	≤ 0.6 dB	≤ 0.3 dB
Composit power max	8 W	150 W
Peak envelope power		3000 W
Intermodulation distortion	≤ -153 dBc	≤ -153 dBc
@ 2 x carrier power	43 dBm	43 dBm
Port designation	J1	J2
Connector series	N	N
Gender	jack (female)	jack (female)

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Electrical remarks

Remarks	DC Path - Passband J1 to J3: Isolated DC Path - Passband J2 to J3: 2A Max J1 to J2 Isolation: > 50dB VSWR, all ports: < 1.3:1 Intermod. Distortion: < 150dBc typical (test with 2x +43 dBm tones) *DC path: DC to 20 MHz
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Mechanical data

Weight	0.9 kg
Width	122.22 mm
Height	32.26 mm
Depth	179.71 mm
Housing material and surface treatment	Aluminium / Passivated

Environmental data

Environment (application)	Indoor
Operation temperature	0 °C ... 50 °C
Storage temperature	0 °C ... 50 °C
Transport temperature	0 °C ... 50 °C
Ingress protection (IP Rating)	IP64

Ordering Information Table

Item number	Item description
85029272	2501.17.0094

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