

Diplexer Tetra

2501.17.0091

Properties

- Injects Tetra band (80 MHz-520 MHz) to all other wireless bands (694 MHz-2700MHz)
- Meets European Rail Standard EN50155:2001 (Class T1)
- 50 W Power handling
- N female interface
- IP67 rating



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

Electrical bands		
	Band 1	Band 2
Frequency range	80 MHz ... 520 MHz	694 MHz ... 2700 MHz
Return loss	≥ 16 dB	≥ 16 dB
Insertion loss	≤ 0.3 dB	≤ 0.5 dB
Composit power max	50 W	120 W
Peak envelope power	3000 W	3000 W
Intermodulation distortion	≤ -161 dBc	≤ -161 dBc
@ 2 x carrier power	43 dBm	43 dBm
Port designation	J1	J2
Connector series	N	N
Gender	jack (female)	jack (female)

Electrical remarks	
Remarks	Return loss band 2, sub-band 960 - 1500 MHz: >13 dB Isolation between port J1 (80 - 520 MHz) and port J2 (694 - 2700 MHz): 80 - 520 MHz: >50 dB 694 - 800 MHz: >40 dB 800 - 2500 MHz: >50 dB 2500 - 2700 MHz: >30 dB

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Mechanical data	
Weight	0.8 kg
Width	130.36 mm
Height	30.99 mm
Depth	177.02 mm
Housing material and surface treatment	Aluminium / Passivated

Environmental data	
Environment (application)	Indoor
Operation temperature	-35 °C ... 65 °C
Storage temperature	-35 °C ... 65 °C
Transport temperature	-35 °C ... 65 °C
Ingress protection (IP Rating)	IP67

Ordering Information Table	
Item number	Item description
84103625	2501.17.0091

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