DATA SHEET

High voltage 4 kV DC block

9077.17.0016

Properties

- Galvanic isolation of the RF signal path
- Can also be installed reversely
- Maintenance free
- Protects against electromagnetic interference caused by traction return current

Product configuration	
Main path connectors	Port 1: N plug (male) Port 2: N jack (female)
Mounting and grounding	MH110 (bulkhead mounting)
Side of bulkhead	Port 2

Interface and material data	
Housing material / plating	Brass
Center contact, material / plating	Port 1: Brass / Gold Plating (without Nickel underplating) Port 2: Copper Beryllium Alloy / Gold Plating (without Nickel underplating)

Electrical data	
Impedance	50 Ω
Frequency frame	140 MHz to 2500 MHz
Return loss typical	≥ 16 dB
Insertion loss typical	≤ 0.5 dB
CW power frame	≤ 80 W
Peak power frame	≤ 250 W
PIM 3rd order	-150 dBc
Galvanic isolation inner conductor	Yes
Galvanic isolation outer conductor	No
Blocking voltage center conductor	≤ 4000 V DC
Leakage current	≤ 50 µA
Test voltage	5000 V
Test leakage current max	100 µA

Electrical bands	
	Range 1
Frequency range	200 MHz ... 2500 MHz

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Electrical bands	
	Range 1
Return loss typical	≥ 20 dB
Insertion loss	≤ 0.5 dB
Power avg. / peak	≤80 W / ≤250 W
PIM 3rd order	-150 dBc typ.

Mechanical data	
Weight	380 g

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP65
Thermal shock according	MIL-STD-202, Method 107, Cond. B
Vibration according	MIL-STD-202, Method 204, Cond. D
Moisture resistance according	MIL-STD-202, Method 106

Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84007393	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

Ordering Information Table	
Item number	Item description
84007393	9077.17.0016

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