DATA SHEET

High voltage 18 kV DC-DC block

9077.17.0006

Properties

- Galvanic isolation of the RF signal path
- Broadband operation up to 3000 MHz
- Maintenance free
- Protects against electromagnetic interference caused by traction return current
- Provide ground potential separation
- Tested up to 18 kV

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	POM (Polyoxymethylene)
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	180 MHz to 3000 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	Yes
Blocking voltage center conductor	≤ 15000 V DC
Blocking voltage outer conductor	≤ 15000 V DC
Leakage current	≤ 50 µA
Test voltage	18000 V

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Electrical data	
Test leakage current max	100 µA

Electrical bands	
	Range 1
Frequency range	380 MHz ... 3000 MHz
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	660 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
84006431	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
84006431	9077.17.0006

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