High voltage 18 kV DC-DC block

9077.17.0022

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 jack (female)	
	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: Copper Beryllium Alloy / 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 μΑ

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	657 g

Environmental data	
Operation temperature	-40 °C 85 °C
Storage temperature	-40 °C 85 °C
Ingress protection (IP Rating)	Mated / IP65, according to IEC 60529
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
84007399	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
84007399	9077.17.0022

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