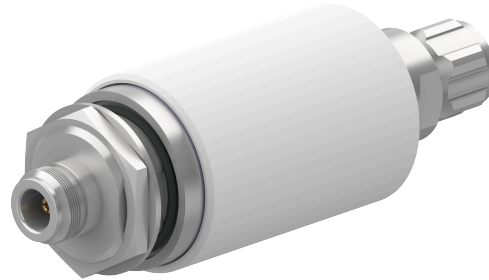


High voltage 4 kV DC-DC block, extended frequency range

9077.17.0035

Properties

- Galvanic isolation of the RF signal path
- Broadband operation up to 6000 MHz
- Maintenance free
- Protects against electromagnetic interference caused by traction return current
- Provide ground potential separation



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

Electrical data

Impedance	50 Ω
Frequency frame	160 MHz to 6 GHz
Galvanic isolation inner conductor	Yes
Galvanic isolation outer conductor	Yes
Blocking voltage center conductor	≤ 4000 V DC
Blocking voltage outer conductor	≤ 4000 V DC
Leakage current	≤ 5 μ A
Test voltage	5000 V
Test leakage current max	10 μ A

Electrical bands

	Range 1	Range 2
Frequency range	300 MHz ... 3000 MHz	4900 MHz ... 6000 MHz
Return loss typical	≥ 22 dB	≥ 20 dB
Insertion loss	≤ 0.2 dB	≤ 0.2 dB

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Electrical bands			
	Range 1		Range 2
Power avg. / peak	≤500 W / ≤1000 W		≤200 W / ≤400 W
PIM 3rd order	-150 dBc typ.		
Mechanical data			
Weight		459 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
84060995	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
Comment			
		suitable mounting bracket 9075.99.0095	
Ordering Information Table			
Item number		Item description	
84060995		9077.17.0035	

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