

High voltage 1 kV DC block

9077.41.0035

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
- Can also be installed reversely



Product configuration

Main path connectors	Port 1: 7/16 jack (female) Port 2: 7/16 plug (male)
Mounting and grounding	M6 (screw)

Interface and material data

Housing material / plating	Brass
Center contact, material / plating	Port 1: Bronze / Silver Plating Port 2: Brass / Silver Plating

Electrical data

Impedance	50 Ω
Frequency frame	350 MHz to 3000 MHz
Return loss typical	≥ 20 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 370 W
Peak power frame	≤ 10 kW
PIM 3rd order	-160 dBc
Galvanic isolation inner conductor	Yes
Galvanic isolation outer conductor	No
Blocking voltage center conductor	≤ 1000 V DC
Blocking voltage outer conductor	≤ 1000 V DC
Leakage current	≤ 5 μ A
Test voltage	1200 V
Test leakage current max	5 μ A

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Electrical bands	
	Range 1
Frequency range	650 MHz ... 2700 MHz
Return loss typical	≥ 26.5 dB
Insertion loss	≤ 0.1 dB

Mechanical data	
Weight	170 g

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP67
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
84082135	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	
	- Peak Instantaneous Power (PIP) : 25 kW - Isolation : > 40dB @ 100kHz , > 60dB @ 10kHz , > 80dB @ 1kHz;

Ordering Information Table	
Item number	Item description
84082135	9077.41.0035

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