

High voltage 4 kV DC block

9077.41.0016

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: 7/16 plug (male) Port 2: 7/16 jack (female)
Side of bulkhead	Port 2

Interface and material data	
Housing material / plating	Brass
Center contact, material / plating	Port 1: Brass / Silver Plating Port 2: Copper Beryllium Alloy / Silver Plating

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
Return loss typical	≥ 20 dB
Insertion loss	≤ 0.5 dB

High voltage 4 kV DC block
9077.41.0016

Electrical bands			
	Range 1		
Power avg. / peak	≤80 W / ≤250 W		
PIM 3rd order	-150 dB		
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
84007407	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: 3147-75-9 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)
			CAS: 7439-92-1 Lead
Comment			
		Suitable mounting bracket 9075.99.0095	
Ordering Information Table			
Item number		Item description	
84007407		9077.41.0016	

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/ EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P38198 / Date of publication: 01.03.2025 / uncontrolled copy