

High voltage 18 kV DC-DC block

9077.41.0010

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: 7/16 plug (male) Port 2: 7/16 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 / Silver Plating
	Port 2: Copper Beryllium Alloy / Silver Plating
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
Test leakage current max	100 μA

High voltage 18 kV DC-DC block

9077.41.0010

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.

Electrical remarks	
Electrical remarks	The voltage test is conducted at 18000 V DC for 1 minute including transient.

Mechanical data	
Weight	688 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
84006433	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

Ordering Information Table	
Item number	Item description
84006433	9077.41.0010

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-P44144 / Date of publication: 01.03.2025 / uncontrolled copy