

High voltage 1 kV DC-DC block

9077.41.0036

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



Product configuration	
Main path connectors	Port 1: 7/16 jack (female) Port 2: 7/16 plug (male)
Side of bulkhead	Port 2
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	360 MHz to 3000 MHz
Return loss typical	≥ 20 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 750 W
Peak power frame	≤ 10 kW
PIM 3rd order	-160 dBc
Galvanic isolation inner conductor	Yes
Galvanic isolation outer conductor	Yes
Blocking voltage center conductor	≤ 1000 V DC
Blocking voltage outer conductor	≤ 1000 V DC
Leakage current	≤ 5 μA
Test voltage	1200 V
Test leakage current max	10 μA

High voltage 1 kV DC-DC block
9077.41.0036

Electrical bands	
	Range 1
Frequency range	650 MHz ... 2700 MHz
Return loss	≥ 26 dB
Insertion loss	≤ 0.1 dB
Power avg. / peak	≤750 W / ≤10 kW
PIM 3rd order	-160 dBc typ.

Mechanical data	
Weight	215 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

Comment	
	- Suitable mounting bracket 9075.99.0095 - Peak Instantaneous Power (PIP) : 25 kW - Isolation : > 40dB @ 100kHz , > 60dB @ 10kHz , > 80dB @ 1kHz

Ordering Information Table	
Item number	Item description
85007661	9077.41.0036

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-P1204 / Date of publication: 21.02.2024 / uncontrolled copy