DATA SHEET

COAXIAL SURGE PROTECTOR DEVICE, GDT technology up to 1.0 GHz, with SEMPER GDT 230 V

3401.17.0048-EX

Properties

- Broadband frequency operation from DC to 1 GHz
- Gas discharge tube replaceable and included
- DC/AC remote powering via coaxial same cable
- Surge current handling capability 30 kA once and 20 kA multiple
- Semper self-extinguishing functionality included

Product configuration	
Main path connectors	Port 1: unprotected, N jack (female)
	Port 2: protected, N jack (female)
Mounting and grounding	MH12 (bulkhead mounting)
Side of bulkhead	protected side

Interface and material data	
Housing material / plating	Brass / SUCOPLATE (R) Plating
Center contact, material / plating	Port 1: Copper Beryllium Alloy / Gold Plating (without Nickel underplating)
	Port 2: Copper Beryllium Alloy / Gold Plating (without Nickel underplating)

Electrical data	
Impedance	50 Ω
Frequency frame	0 MHz to 1000 MHz
Return loss typical	≥ 24 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 150 W
DC current	≤ 2.5 A at 48 V
	≤ 4 A at 27 V
	≤ 6 A at 24 V
	≤ 13 A at 17 V
Turn-off time	20 sec. typically at 2.0 A and 25°C ambient temperature
	< 40 sec. typically below 1 A and 25°C ambient temperature
Recovery time	7 sec. at 25°C ambient temperature
Residual pulse energy (typ.)	350 µJ (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs)
Residual pulse voltage (typ.)	650 V (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs)

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Electrical data	
Surge current handling capability	30 kA single, 20 kA multiple (test pulse 8/20 µs)

Electrical remarks	
DC supply voltage	48 V
DC current	2.5 A
Gas tube	Yes DC, GDT included, replaceable, 9071.99.0647 (SEMPER, 230 V)

Mechanical data	
Weight	114 g
Mating cycles	500

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

Ordering Information Table	
Item number	Item description
84014636	3401.17.0048-EX

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DOCUMENT PIM-P2033 / Date of publication: 06.03.2024 / uncontrolled copy