

# COAXIAL SURGE PROTECTOR DEVICE, GDT technology up to 3 GHz (Platform 3000), with SEMPER GDT 230 V 3402.17.3004-EX

## Properties

- Broadband frequency operation from DC to 3 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 plug (male) Port 2: protected, N jack (female)
Mounting and grounding	MH170 (bulkhead mounting)
Side of bulkhead	protected side
EMP can be install reversed	YES

## 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 $\Omega$
Frequency frame	0 MHz to 3000 MHz
Return loss typical	$\geq 20$ dB
Insertion loss typical	$\leq 0.3$ dB
CW power frame	$\leq 150$ W
DC current	$\leq 2.5$ A at 48 V
	$\leq 4$ A at 27 V
	$\leq 6$ A at 24 V
	$\leq 13$ 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 $\mu$ J (test pulse 4 kV 1.2/50 $\mu$ s; 2 kA 8/20 $\mu$ s)

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with SEMPER GDT 230 V**  
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Electrical data	
Residual pulse voltage (typ.)	650 V (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs)
Surge current handling capability	30 kA single, 20 kA multiple (test pulse 8/20 µs)

Electrical bands	
	Range 1
Frequency range	0 MHz ... 2000 MHz
Return loss typical	≥ 26 dB
Insertion loss	≤ 0.2 dB
Power avg. / peak	≤150 W / -

Electrical remarks	
DC supply voltage	48 V
DC current	2.5 A
Gas tube	Yes DC, GDT included, replaceable, 9071.99.0947 (SEMPER, 230 V)

Mechanical data	
Weight	180 g
Mating cycles	500

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Mated / IP67, 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

Ordering Information Table	
Item number	Item description
85247802	3402.17.3004-EX

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