

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

3401.26.0012-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



CE  
UK  
CA

## Product configuration

Main path connectors	Port 1: unprotected, TNC jack (female) Port 2: protected, TNC jack (female)
Mounting and grounding	MH12 (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 Ω
Frequency frame	0 MHz to 1000 MHz
Return loss typical	19 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)

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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 ... 300 MHz
Return loss typical	26.44 dB
Insertion loss	0.1 dB
Power avg. / peak	150 W / -
PIM 3rd order	0 dBc

**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	77 g
Mating cycles	500

**Environmental data**

Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP64
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
84014650	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC >0,1%	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

**Ordering Information Table**

Item number	Item description
84014650	3401.26.0012-EX

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