

# COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology

3409.41.0090

## Properties

- DC continuity for remote powering
- RF peak power not limited by gas discharge tube
- Excellent low PIM performance; Ideal for multicarrier systems
- Availability for application bands between 380 MHz and 18 GHz
- Gas discharge tube installed



CE  
UK  
CA

## Product configuration

Main path connectors	Port 1: unprotected, 7/16 plug (male) Port 2: protected, 7/16 jack (female)
Mounting and grounding	MH110 (bulkhead mounting), M8 (screw), brk (bracket)
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: Brass / Silver Plating Port 2: Bronze / Silver Plating

## Electrical data

Impedance	50 Ω
Frequency frame	690 MHz to 2690 MHz
Return loss typical	≥ 28 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 1500 W
PIM 3rd order	-160 dBc
AISG frequency	10 MHz
AISG return loss	18 dB
AISG insertion loss	0.1 dB
Residual pulse energy (typ.)	250 μJ (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)

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### Electrical remarks

DC supply voltage	48 V
DC current	13 A
Gas tube	Yes DC, GDT included, replaceable, 9071.99.0548 (90 V)

### Mechanical data

Weight	525 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. A
Moisture resistance according	MIL-STD-202, Method 106

### Compliance

Item number	Directive / Regulation	Rating	Exemptions / Details
84142698	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: 7439-92-1 Lead

### Ordering Information Table

Item number	Item description
84142698	3409.41.0090

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DOCUMENT PIM-P1940 / Date of publication: 28.02.2025 / uncontrolled copy