

# 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



## 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 $\Omega$
Frequency frame	690 MHz to 2690 MHz
Return loss typical	$\geq 28$ dB
Insertion loss typical	$\leq 0.1$ dB
CW power frame	$\leq 1500$ 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 $\mu$ J (test pulse 4 kV 1.2/50 $\mu$ s; 2 kA 8/20 $\mu$ s)
Surge current handling capability	30 kA single, 20 kA multiple (test pulse 8/20 $\mu$ s)

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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

Ordering Information Table	
Item number	Item description
84142698	3409.41.0090

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