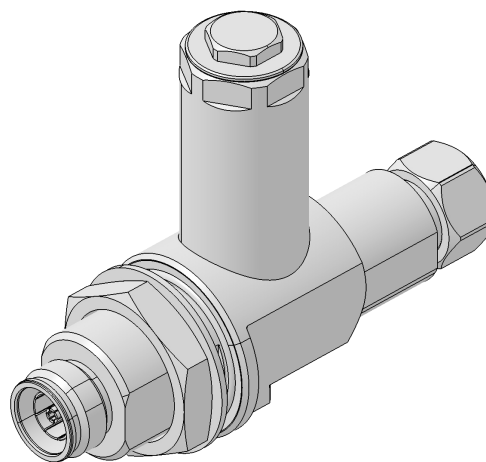


# COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology

3409.31.0001

## 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, 4.3-10 plug (male) Port 2: protected, 4.3-10 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 2700 MHz
Return loss typical	24 dB
Insertion loss typical	0.1 dB
CW power frame	1500 W
PIM 3rd order	-160 dBc max.
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)

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

3409.31.0001

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	
Mating cycles	500

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP67
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
85020334	3409.31.0001

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.  
DOCUMENT PIM-P1947 / Date of publication: 10.04.2024 / uncontrolled copy