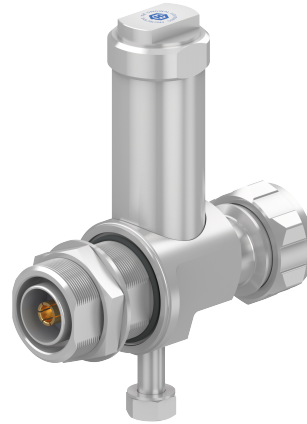


COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology

3409.41.0081

Properties

- DC continuity for remote powering
- RF peak power not limited by gas discharge tube
- Excellent low PIM performance; Ideal for multicarrier systems
- Multi-band operation
- Gas discharge tube installed
- AISG compliant for 2176 MHz carrier



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 2200 MHz
Return loss typical	≥ 22 dB
Insertion loss typical	≤ 0.15 dB
CW power frame	1500 W
PIM 3rd order	-150 dBc typ.
AISG frequency	2176 MHz
AISG return loss	20 dB
AISG insertion loss	0.1 dB
Residual pulse energy (typ.)	250 μ J (test pulse 4 kV 1.2/50 μ s; 2 kA 8/20 μ s)
Surge current handling capability	30 kA single, 20 kA multiple (test pulse 8/20 μ s)

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Electrical bands		
	Range 1	Range 2
Frequency range	690 MHz ... 960 MHz	1700 MHz ... 2200 MHz
Return loss typical	≥ 24 dB	≥ 24 dB
Insertion loss	≤ 0.15 dB	≤ 0.15 dB
Power avg. / peak	≤1500 W / -	≤1500 W / -
PIM 3rd order	-150 dBc typ.	-150 dBc typ.

Electrical remarks	
DC supply voltage	48 V
DC current	10 A
Gas tube	Yes DC, GDT included, replaceable, 9071.99.0548 (90 V)
Electrical remarks	Residual pulse voltage: 650 V typically (test pulse 4 kV 1.2/50 µs / 2 kA 8/20 µs)

Mechanical data	
Weight	528 g
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

Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84083837	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

Comment	
	Mounting screw set 9075.99.0023 included Torque for bulkhead mounting/grounding nut: 35 Nm (25.8 ftlb) min. / 44 Nm (32.3 ftlb) max.

Ordering Information Table	
Item number	Item description
84083837	3409.41.0081

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