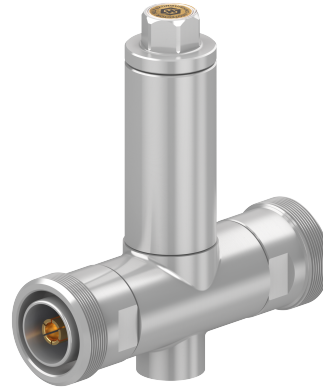


COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology

3409.41.0051-EX

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 with SEMPER configuration



Product configuration

Main path connectors	Port 1: unprotected, 7/16 jack (female) Port 2: protected, 7/16 jack (female)
Mounting and grounding	M8 (screw), brk (bracket)
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 / Silver Plating Port 2: Copper Beryllium Alloy / Silver Plating

Electrical data

Impedance	50 Ω
Frequency frame	806 MHz to 2500 MHz
Return loss typical	20.8 dB
Insertion loss typical	0.15 dB
CW power frame	1500 W
Peak power frame	20000 W
PIM 3rd order	-150 dBc typ.
AISG frequency	2176 MHz
AISG return loss	20 dB
AISG insertion loss	0.1 dB
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

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Electrical data	
	< 40 sec. typically below 1 A and 25°C ambient temperature
Recovery time	7 sec. at 25°C ambient temperature
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)

Electrical bands		
	Range 1	Range 2
Frequency range	806 MHz ... 960 MHz	1710 MHz ... 2500 MHz
Return loss typical	26 dB	26 dB
Insertion loss	0.15 dB	0.15 dB
Power avg. / peak	3000 W / 20000 W	1500 W / 20000 W
PIM 3rd order	-150 dBc typ.	-150 dBc typ.

Electrical remarks	
DC supply voltage	48 V
DC current	2.5 A
Gas tube	Yes DC, GDT included, replaceable, 9071.99.0748 (SEMPER, 90 V)

Mechanical data	
Weight	412 g
Mating cycles	500

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP65
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
23035486	3409.41.0051-EX

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