Data Sheet

EMP Protector 3409.17.0027-EX



Description

High-power/low-IM GDT hybrid technology

Benefits

Self-extinguishing SEMPER(TM) functionality

AISG compliant for 2.176 MHz carrier

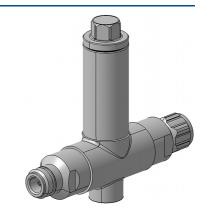
Broad-band design

DC continuity for remote powering

The protector can also be installed reversely

Replaceable GDT unit 9071.99.0748, (90V) included

Compliant to IEC 61643-21



Product Configuration

Main path connectors Port 1: <u>unprotected</u>, N plug (male) - Port 2: <u>protected</u>, N jack (female)

Mounting and grounding M8 (screw), brk (bracket)

Technical Data

Electrical Data

50 Ω Impedance Frequency range 2.176 MHz 806 - 2500 MHz 806 - 960 MHz 1710 - 2500 MHz ≥ 20.8 dB ≥ 26 dB ≥ 26 dB 20 dB tvp. Return loss Insertion loss 0.1 dB typ. ≤ 0.15 dB ≤ 0.15 dB ≤ 0.15 dB RF CW power ≤ 500 W ≤ 1000 W ≤ 500 W -150 dBc typ. -150 dBc typ. PIM 3rd order -150 dBc tvp.

DC supply voltage ≤ 48 V
DC current ≤ 2.5 A

Surge current handling capability 30 single / 20 multiple kA (test pulse 8/20 µs)

Residual pulse energy 350 µJ typically (test pulse 4 kV 1.2/50 µs / 2 kA 8/20 µs) main path - protected side

Turn-off time 20 s typically at 2.0 A and 25 °C ambient temperature < 40 s typically below 1 A and 25 °C ambient temperature

Recovery time 7 s at 25 °C ambient temperature

Mechanical Data

Number of matings 500 Weight 402 g

Environmental Data

Operating temperature -40 °C to +85 °C (Lightning protection functionality)

-20 °C to +85 °C (SEMPERTM functionality)

Waterproof degree IP65 (according to IEC 60529, data refer to the coupled state)

2011/65/EU (RoHS) Compliant exempt. 7(b)

Material Data

Piece Parts	Material	Surface Plating
Housing	Brass	SUCOPLATE (R) Plating
Port 1 center contact	Brass	Gold Plating (without Nickel underplating)
Port 2 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)

Related Documents

Outline drawing DOU-00004497.1 Mounting instruction DOC-0000176104

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