Data Sheet

IUBER+SUHNER

EMP Protector 3409.41.0051-EX

Description

High-power/low-IM GDT hybrid technology

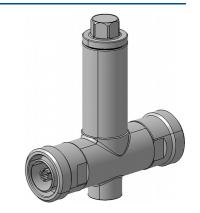
Benefits

Self-extinguishing Semper 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

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

Technical Data

Electrical Data

Impedance 50 Ω Frequency range 2.176 MHz 806 - 2500 MHz 806 - 960 MHz 1710 - 2500 MHz ≥ 20.8 dB ≥ 26 dB Return loss 20 dB tvp. ≥ 26 dB Insertion loss 0.1 dB typ. ≤ 0.15 dB ≤ 0.15 dB ≤ 0.15 dB RF CW power ≤ 1500 W ≤ 1500 W ≤ 3000 W -150 dBc typ. -150 dBc typ. -150 dBc typ. PIM 3rd order

DC supply voltage ≤ 48 V ≤25A DC current

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

20 s typically at 2.0 A and 25 °C ambient temperature Turn-off time < 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 412 g

Environmental Data

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

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

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

2011/65/EU (RoHS - including compliant acc. Annex III 2015/863 and 2017/2102)

Material Data

Piece Parts	Material	Surface Plating
Housing	Brass	SUCOPLATE (R) Plating
Port 1 center contact	Copper Beryllium Alloy	Silver Plating
Port 2 center contact	Copper Beryllium Alloy	Silver Plating

Related Documents

DOU-00004588.1 Outline drawing DOC-0000176104 Mounting instruction

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

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