

HUBER+SUHNER® DATA SHEET

EMP Protector: 3409.17.0031-EX

Rev.: H



Description

High-power/low-IM GDT hybrid technology

Benefits

Self-extinguishing SEMPER(TM) functionality

AISG compliant for 2.176 MHz carrier

Broad-band operation

DC continuity for outdoor powering

The protector can also be installed reversely

With GDT unit 9071.99.0748, 90V

Compliant to IEC 61643-21

Product Configuration

Main path connectors

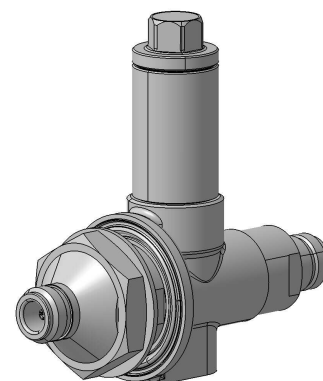
Mounting and grounding

Side of bulkhead

Port 1: unprotected, N jack (female) - Port 2: protected, N jack (female)

MH74/M8/brk (MH=bulkhead mounting/M=screw/brk=bracket)

protected side



Technical Data

Electrical Data

Impedance	50 Ω			
Frequency range	2.176 MHz	806 to 2500 MHz	806 to 960 MHz	1710 to 2500 MHz
Return loss	20 dB typ.	≥ 20.8 dB	≥ 26 dB	≥ 26 dB
Insertion loss	0.1 dB typ.	≤ 0.15 dB	≤ 0.15 dB	≤ 0.15 dB
RF CW power		≤ 500 W	≤ 1000 W	≤ 500 W
PIM 3 rd order		not specified	-150 dBc typ.	-150 dBc typ.
DC voltage	≤ 48 V			
DC current	≤ 2.5 A			
Surge current handling capability	30 single / 20 multiple kA (test pulse 8/20 μ s)			
Residual pulse energy	350 μ J typically (test pulse 4 kV 1.2/50 μ s / 2 kA 8/20 μ s)	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

Weight 425 g

Environmental Data

Operating temperature -40 °C to +85 °C (Lightning protection functionality)
-20 °C to +85 °C (SEMPERTM functionality)
Waterproof degree IP 65 (according to IEC 60529, data refer to the coupled state)
2002/95/EC (RoHS) Telecom compliant

Material Data

Piece Parts

Housing

Port 1 center contact

Port 2 center contact

Material

Brass

Copper Beryllium Alloy

Copper Beryllium Alloy

Surface Plating

SUCOPLATE (R) Plating

Gold Plating (without Nickel underplating)

Gold Plating (without Nickel underplating)

Related Documents

Outline drawing DOU-00004503.1
Mounting instruction DOC-0000176104

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical contained specifications and/or the fitness for any particular purpose. The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



HUBER+SUHNER AG

RF Protection

9100 Herisau, Switzerland

Phone +41 (0)71 353 41 11

Fax +41 (0)71 353 47 51

www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions