#### **Data Sheet**

## **EMP Protector** 3409.41.0085

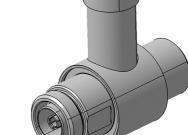
# HUBER+SUHNER Excellence in Connectivity Solutions

#### **Description**

High-power/low-IM GDT hybrid technology

#### **Benefits**

Multi-band operation
DC continuity for remote powering
The protector can also be installed reversely
AISG compliant for 2.176 MHz carrier
Replaceable GDT 9071.99.0548, (90 V) included



#### **Product Configuration**

Compliant to IEC 61643-21

Main path connectors Port 1: <u>unprotected</u>, 7/16 jack (female) - Port 2: <u>protected</u>, 7/16 jack (female) Mounting and grounding MH74 (bulkhead mounting), brk (bracket)

protected side

#### **Technical Data**

#### **Electrical Data**

Side of bulkhead

50 Ω Impedance 2.176 MHz 820 - 2500 MHz 820 - 970 MHz 1700 - 2500 MHz Frequency range Return loss 20 dB typ. ≥ 20.8 dB ≥ 23.2 dB ≥ 23.2 dB Insertion loss 0.1 dB typ. ≤ 0.1 dB ≤ 0.1 dB ≤ 0.1 dB RF CW power ≤ 1500 W ≤ 3000 W ≤ 1500 W PIM 3rd order -150 dBc typ. -150 dBc typ. -150 dBc typ.

DC supply voltage ≤ 48 V
DC current ≤ 10 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

**Mechanical Data** 

Number of matings 100
Weight 260 g

**Environmental Data** 

Operating temperature -40 °C to +85 °C

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

2011/65/EU (RoHS) compliant acc. Annex III

#### Material Data

Piece Parts	Material	Surface Plating
Housing	Aluminium	Chromatized
Port 1 center contact	Bronze	Silver Plating
Port 2 center contact	Bronze	Silver Plating

#### **Related Documents**

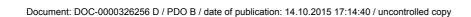
Outline drawing DOU-00154641 Mounting instruction DOC-0000447876

#### Remarks

Ordering information for optional stainless steel mounting/grounding accessory:

9075.99.0108: threaded stud M8, length 30mm, hexagonal nut M8, washer and tooth washer

Recommendation: if this protector is mated with connectors made of copper-alloy base material and trimetal or nickel plating the connector area must be taped to improve long-term durability.



### **Data Sheet**

**EMP Protector 3409.41.0085** 



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

www.hubersuhner.com

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

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

**HUBER+SUHNER:** 

3409.41.0085