

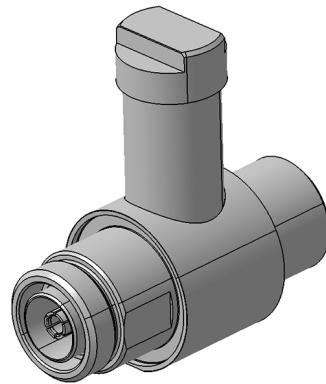
EMP Protector 3409.41.0085

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
- Compliant to IEC 61643-21



Product Configuration

Main path connectors
Mounting and grounding
Side of bulkhead

Port 1: unprotected, 7/16 jack (female) - Port 2: protected, 7/16 jack (female)
MH74 (bulkhead mounting), brk (bracket)
protected side

Technical Data

Electrical Data

Impedance	50 Ω	820 - 2500 MHz	820 - 970 MHz	1700 - 2500 MHz
Frequency range	2.176 MHz	≥ 20.8 dB	≥ 23.2 dB	≥ 23.2 dB
Return loss	20 dB typ.	≤ 0.1 dB	≤ 0.1 dB	≤ 0.1 dB
Insertion loss	0.1 dB typ.	≤ 1500 W	≤ 3000 W	≤ 1500 W
RF CW power		-150 dBc typ.	-150 dBc typ.	-150 dBc typ.
PIM 3rd order				
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 - including 2015/863 and 2017/2102)	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