

## EMP Protector 3403.17.0049

### Description

Fine protector hybrid technology

#### Benefits

Replaceable GDT 9071.99.0548, (90 V) included  
DC continuity for remote powering  
Broad-band design  
Compliant to IEC 61643-21



### Product Configuration

Main path connectors  
Mounting and grounding  
Side of bulkhead

Port 1: unprotected, N plug (male) - Port 2: protected, N jack (female)  
MH119 (bulkhead mounting), M4 (screw), brk (bracket)  
protected side

### Technical Data

#### Electrical Data

Impedance	50 Ω
Frequency range	650 - 2500 MHz
Return loss	≥ 20.8 dB
Insertion loss	≤ 0.5 dB
RF CW power	≤ 50 W
PIM 3rd order	not specified
DC supply voltage	≤ 15 V
DC current	≤ 3 A
Surge current handling capability	30 single / 20 multiple kA (test pulse 8/20 μs)
Residual pulse energy	6 μJ typically (test pulse 4 kV 1.2/50 μs / 2 kA 8/20 μs) main path - protected side

#### Mechanical Data

Number of matings	500
Weight	330 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/EC (RoHS)	compliant acc. Annex III

#### Material Data

Piece Parts	Material	Surface Plating
Housing	Aluminium	Chromatized
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-00019763.1
Mounting instruction	DOC-0000176104

### Remarks

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.

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