

## 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	Port 1: <u>unprotected</u> , N plug (male) - Port 2: <u>protected</u> , N jack (female)
Mounting and grounding	MH119 (bulkhead mounting), M4 (screw), brk (bracket)
Side of bulkhead	protected side

### Technical Data

#### Electrical Data

Impedance	50 $\Omega$
Frequency range	650 - 2500 MHz
Return loss	$\geq 20.8$ dB
Insertion loss	$\leq 0.5$ dB
RF CW power	$\leq 50$ W
PIM 3rd order	not specified
DC supply voltage	$\leq 15$ V
DC current	$\leq 3$ A
Surge current handling capability	30 single / 20 multiple kA (test pulse 8/20 $\mu$ s)
Residual pulse energy	6 $\mu$ J typically (test pulse 4 kV 1.2/50 $\mu$ s / 2 kA 8/20 $\mu$ s) 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/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	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.