

## EMP Protector 3404.00.0012

### Description

Slim Line GDT technology

#### Benefits

- DC continuity for remote powering
- Fix installed GDT, static sparkover-voltage nom. 150 V
- Broad-band design
- Space saving inline design
- Compliant to IEC 61643-21



### Product Configuration

Main path connectors	Port 1: <u>unprotected</u> , N jack (female) - Port 2: <u>protected</u> , MMCX jack (female)
Mounting and grounding	MH119 (bulkhead mounting), brk (bracket)
Side of bulkhead	unprotected side

### Technical Data

#### Electrical Data

Impedance	50 Ω
Frequency range	0 - 3000 MHz
Return loss	≥ 20 dB
Insertion loss	≤ 0.25 dB
RF CW power	≤ 30 W
PIM 3rd order	not specified
DC supply voltage	≤ 28 V
DC current	≤ 2 A
Surge current handling capability	10 single / 5 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

#### Environmental Data

Operating temperature	-40 °C to +85 °C
Waterproof degree	IP68 (according to IEC 60529, data refer to the coupled state)
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant

#### Material Data

Piece Parts	Material	Surface Plating
Housing	Stainless Steel	Passivated (Plating)
Port 1 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)
Port 2 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)

### Related Documents

Outline drawing	DOU-00399098
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### Remarks

- > Static spark-over voltage: 150 V +/- 25 %
- > Waterproof N interface, even in un-mated conditions: IP68 acc. IEC 60529 and MIL-STD 810G Method 512.5, Procedure I (3 m of seawater, 30 min)
- > Mounting hole: 5/8-24 UNEF-2B, (16.1 mm or MH119)
- > Thermal Shock - MIL-STD-202, Method 107, Cond. B
- > Vibration - MIL-STD-202, Method 204, Cond. D
- > Moisture Resistance - MIL-STD-202, Method 106

