**Data Sheet**

**EMP Protector**  
3404.00.0011

### 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

<table>
<thead>
<tr>
<th>Main path connectors</th>
<th>Port 1: <em>(unprotected)</em> TNC jack (female) - Port 2: <em>(protected)</em> MMCX jack (female)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting and grounding</td>
<td>MH119 (bulkhead mounting), brk (bracket)</td>
</tr>
<tr>
<td>Side of bulkhead</td>
<td><em>(protected side)</em></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Piece Parts</th>
<th>Material</th>
<th>Surface Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing</td>
<td>Stainless Steel</td>
<td>Passivated (Plating)</td>
</tr>
<tr>
<td>Port 1 center contact</td>
<td>Copper Beryllium Alloy</td>
<td>Gold Plating (without Nickel underplating)</td>
</tr>
<tr>
<td>Port 2 center contact</td>
<td>Copper Beryllium Alloy</td>
<td>Gold Plating (without Nickel underplating)</td>
</tr>
</tbody>
</table>

### Related Documents

Outline drawing  
DOU-00399173

### Remarks

- Static spark-over voltage: 150 V +/- 25 %
- Waterproof TNC 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)
- Vibration - MIL-STD-202, Method 204, Cond. D