

## EMP Protector 3407.17.0089

### Description

Quarter-wave stub technology with integrated high-pass filter

#### Benefits

Broad-band design  
Mounting screw set included  
The protector can also be installed reversely  
Compliant to IEC 61643-21



### Product Configuration

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Main path connectors   | Port 1: <u>unprotected</u> , N jack (female) - Port 2: <u>protected</u> , N jack (female) |
| Mounting and grounding | MH74 (bulkhead mounting), M8 (screw), brk (bracket)                                       |
| Side of bulkhead       | protected side                                                                            |

### Technical Data

#### Electrical Data

|                 |                |
|-----------------|----------------|
| Impedance       | 50 $\Omega$    |
| Frequency range | 74 - 420 MHz   |
| Return loss     | $\geq 23.1$ dB |
| Insertion loss  | $\leq 0.15$ dB |
| RF CW power     | $\leq 500$ W   |
| PIM 3rd order   | not specified  |

|                                   |                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------|
| Surge current handling capability | 50 multiple kA (test pulse 8/20 $\mu$ s)                                                              |
| Residual pulse energy             | 0.1 $\mu$ 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            | 680 g |

#### Environmental Data

|                                                      |                                                                |
|------------------------------------------------------|----------------------------------------------------------------|
| Operating temperature                                | -40 °C to +85 °C                                               |
| Waterproof degree                                    | IP67 (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               | Brass                  | SUCOPLATE (R) Plating |
| Port 1 center contact | Copper Beryllium Alloy | Gold Plating          |
| Port 2 center contact | Copper Beryllium Alloy | Gold Plating          |

### Related Documents

|                      |                |
|----------------------|----------------|
| Outline drawing      | DOU-00201949   |
| Mounting instruction | DOC-0000176104 |

### Remarks

SPD acc. EN 61643-21 category D1, high energy test 20 kA, 10/350  $\mu$ s  
Mounting screw set 9075.99.0108 included: (threaded stud M8, length 30mm, hexagonal nut M8, washer and tooth washer)