

## EMP Protector 3400.17.0431

### Description

Quarter-wave stub technology

#### Benefits

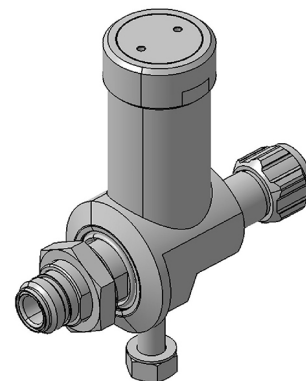
Broad-band design

The protector can also be installed reversely

Multi-band operation

Mounting screw set 9075.99.0023 included

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)  
MH170 (bulkhead mounting), M8 (screw), brk (bracket)  
protected side

### Technical Data

#### Electrical Data

|                 |                |                |                 |
|-----------------|----------------|----------------|-----------------|
| Impedance       | 50 $\Omega$    |                |                 |
| Frequency range | 690 - 2200 MHz | 690 - 960 MHz  | 1700 - 2200 MHz |
| Return loss     | $\geq 23$ dB   | $\geq 24$ dB   | $\geq 24$ dB    |
| Insertion loss  | $\leq 0.15$ dB | $\leq 0.15$ dB | $\leq 0.15$ dB  |
| RF CW power     | $\leq 500$ W   | $\leq 500$ W   | $\leq 500$ W    |
| PIM 3rd order   | -150 dBc max.  | -150 dBc max.  | -150 dBc max.   |

|                                   |                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------|
| Surge current handling capability | 50 multiple kA (test pulse 8/20 $\mu$ s)                                                             |
| Residual pulse energy             | 10 $\mu$ 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            | 440 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 | Brass                  | Gold Plating (without Nickel underplating) |
| Port 2 center contact | Copper Beryllium Alloy | Gold Plating (without Nickel underplating) |

### Related Documents

|                      |                |
|----------------------|----------------|
| Outline drawing      | DOU-00137845.1 |
| Mounting instruction | DOC-0000176104 |