

EMP Protector 3407.17.0086

Description

Quarter-wave stub technology with integrated high-pass filter

Benefits

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> , N jack (female) |
| Mounting and grounding | MH71 (bulkhead mounting), brk (bracket) |
| Side of bulkhead | unprotected side |
| Design speciality | inline design |

Technical Data

Electrical Data

| | | |
|-----------------------------------|--|----------------|
| Impedance | 50 Ω | |
| Frequency range | 690 - 2700 MHz | 690 - 2500 MHz |
| Return loss | ≥ 24 dB | ≥ 26 dB |
| Insertion loss | ≤ 0.15 dB | ≤ 0.15 dB |
| RF CW power | ≤ 260 W | |
| PIM 3rd order | -150 dBc typ. | -150 dBc typ. |
| Surge current handling capability | 20 single / 10 multiple kA (test pulse 8/20 μs) | |
| Residual pulse energy | 0.001 μJ typically (test pulse 4 kV 1.2/50 μs / 2 kA 8/20 μs) main path - protected side | |

Mechanical Data

| | |
|-------------------|------|
| Number of matings | 50 |
| Weight | 64 g |

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 acc. Annex III |

Material Data

| Piece Parts | Material | Surface Plating |
|-----------------------|-----------|-----------------|
| Housing | Aluminium | |
| Port 1 center contact | Bronze | Gold Plating |
| Port 2 center contact | Bronze | Gold Plating |

Related Documents

| | |
|----------------------|----------------|
| Outline drawing | DOU-00164037 |
| Mounting instruction | DOC-0000447876 |

Remarks

RF CW power @ 920 MHz ≤ 500 W or RF CW power @ 2.7 GHz ≤ 260 W
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.

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