

## 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.