

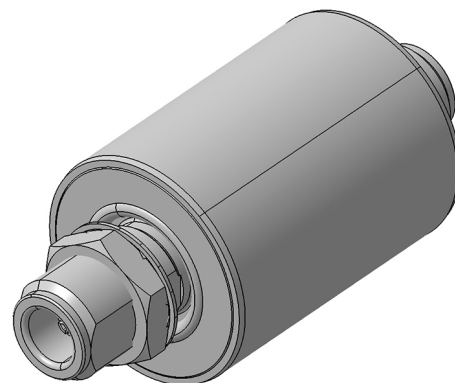
## EMP Protector 3403.17.0069

### Description

Fine protector hybrid technology

#### Benefits

Multi-band operation  
DC continuity for remote powering  
Permanently installed gas discharge tube  
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	MH12 (bulkhead mounting), brk (bracket)
Side of bulkhead	protected side

### Technical Data

#### Electrical Data

Impedance	50 $\Omega$		
Frequency range	5.5 - 400 MHz	40 - 55 MHz	55 - 400 MHz
Return loss	$\geq 10$ dB	$\geq 20$ dB	$\geq 26$ dB
Insertion loss	$\leq 1$ dB	$\leq 0.25$ dB	$\leq 0.25$ dB
RF CW power		$\leq 100$ W	$\leq 100$ W
PIM 3rd order	not specified		
DC supply voltage	$\leq 60$ V		
DC current	$\leq 4$ A		
Surge current handling capability	8 multiple kA (test pulse 8/20 $\mu$ s)		
Residual pulse energy	60 $\mu$ 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	100
Weight	93 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 acc. Annex III

#### Material Data

Piece Parts	Material	Surface Plating
Housing	Aluminium	
Port 1 center contact	Bronze	Gold Plating (without Nickel underplating)
Port 2 center contact	Bronze	Gold Plating (without Nickel underplating)

### Related Documents

Outline drawing	DOU-00195876
Mounting instruction	DOC-0000176104

### Remarks

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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