

EMP Protector 3403.17.0045

Description

Fine protector hybrid technology

Benefits

- Broad-band design
- DC continuity for remote powering
- Replaceable GDT 9071.99.0548, (90 V) included
- 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	MH119 (bulkhead mounting), M4 (screw), brk (bracket)
Side of bulkhead	protected side

Technical Data

Electrical Data

Impedance	50 Ω	
Frequency range	800 - 2000 MHz	1500 - 1600 MHz
Return loss	≥ 20 dB	≥ 26.44 dB
Insertion loss	≤ 0.4 dB	≤ 0.4 dB
RF CW power	≤ 50 W	≤ 50 W
PIM 3rd order	not specified	not specified
DC supply voltage	≤ 15 V	
DC current	≤ 3 A	
Surge current handling capability	30 single / 20 multiple kA (test pulse 8/20 μs)	
Residual pulse energy	6 μJ typically (test pulse 4 kV 1.2/50 μs / 2 kA 8/20 μs) main path - protected side	

Mechanical Data

Number of matings	500
Weight	330 g

Environmental Data

Operating temperature	-40 °C to +85 °C
Waterproof degree	IP66 (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	Chromatized
Port 1 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)
Port 2 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)

Related Documents

Outline drawing	DOU-00015730.1
Mounting instruction	DOC-0000176104

Remarks

Current-handling capability: 25 kA once and 10 kA multiple (8 / 20 us test pulse) Residual pulse energy: typ. 6uJ (test pulse 4 kV, 1.2 / 50 us 2 kA, 8 / 20 us IEC 61000-4-5) Residual pulse amplitude: typ. <60V (measured with gas capsule 73 Z-0-0-548 (90 V)) Gas capsule 73Z-0-0-548 included (sparkover voltage 90 V) Max. bypass voltage: 15 V Max. bypass current: 3A DC bypass resistance: < 1 Ohm Bulkhead on the protected side.

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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.