Data Sheet

EMP Protector
3403.17.0051

Description

Fine protector hybrid technology



Benefits

DC continuity for remote powering
Broad-band design
Replaceable GDT 9071.99.0548, (90 V) included
Compliant to IEC 61643-21

Product Configuration

Main path connectors	Port 1: unprotected, N plug (male) - Port 2: protected, N jack (female)
Mounting and grounding	M6 (screw), brk (bracket)

Technical Data

Electrical Data

Impedance	50 Ω
Frequency range	806 - 2500 MHz
Return loss	≥ 20.8 dB
Insertion loss	≤ 0.5 dB
RF CW power	≤ 50 W
PIM 3rd order	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	IP65 (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	Brass	Gold Plating (without Nickel underplating)
Port 2 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)

Related Documents

Outline drawing	DOU-00018513.1
Mounting instruction	DOC-0000176104

Remarks

Residual pulse amplitude: typ. <100V (test pulse 10 kV, 5/200 ns)
Residual pulse amplitude: typ. <50V (test pulse 6 kV, 5/200 ns)
Measured with capsuel 9071.99.0548, 90 V acc. MIL-STD-461
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.

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.