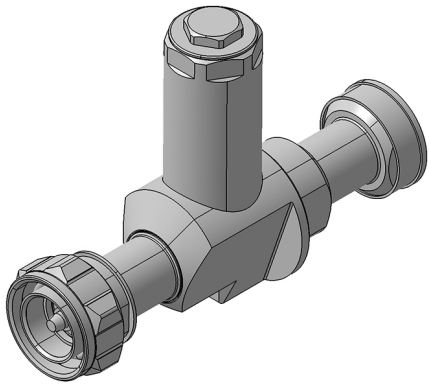
Data Sheet

EMP Protector
3409.41.0090

Description

High-power/low-IM GDT hybrid technology



Benefits

Multi-band operation
DC continuity for remote powering
The protector can also be installed reversely
AISG compliant for 2.176 MHz carrier
Replaceable GDT 9071.99.0548, (90 V) included
Compliant to IEC 61643-21

Product Configuration

Main path connectors	Port 1: unprotected, 7/16 plug (male) - Port 2: protected, 7/16 jack (female)
Mounting and grounding	MH110 (bulkhead mounting), M8 (screw), brk (bracket)
Side of bulkhead	protected side

Technical Data

Electrical Data

Impedance	50 Ω	
Frequency range	10 MHz	690 - 2690 MHz
Return loss	18 dB typ.	≥ 28 dB
Insertion loss	0.1 dB typ.	≤ 0.1 dB
RF CW power		≤ 1500 W
PIM 3rd order		-160 dBc max.

DC supply voltage	≤ 48 V
DC current	≤ 13 A
Surge current handling capability	30 single / 20 multiple kA (test pulse 8/20 µs)
Residual pulse energy	350 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	510 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

Material Data

Piece Parts	Material	Surface Plating
Housing	Brass	SUCOPLATE (R) Plating
Port 1 center contact	Brass	Silver Plating
Port 2 center contact	Bronze	Silver Plating

Related Documents

Outline drawing	DOU-00196615
Mounting instruction	DOC-0000176104

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