

ATEX RF SPD 9096.17.0003

Description

ATEX RF SPD quarter-wave stub technology

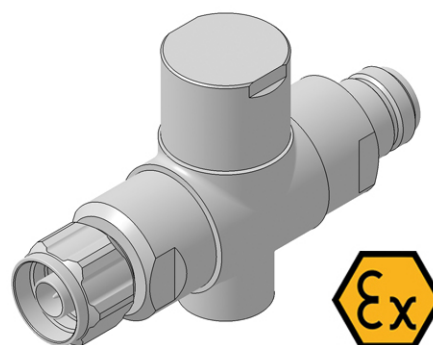
Benefits

Type of protection: "nA" and "tc"

For Zone 2 or Zone 22 of potentially explosive atmospheres

The protector can also be installed reversely

Compliant to IEC 61643-21



Product Configuration

Main path connectors
Mounting and grounding

Port 1: unprotected, N plug (male) - Port 2: protected, N jack (female)
M8 (screw), brk (bracket)

Technical Data

Electrical Data

Impedance	50 Ω
Frequency range	2000 - 6000 MHz
Return loss	≥ 20 dB
Insertion loss	≤ 0.2 dB
RF CW power	≤ 6 W
PIM 3rd order	not specified

Surge current handling capability	50 multiple kA (test pulse 8/20 μ s)
Residual pulse energy	0.4 μ J typically (test pulse 4 kV 1.2/50 μ s / 2 kA 8/20 μ s) main path - protected side

Mechanical Data

Number of matings	500
Weight	290 g

Environmental Data

Operating temperature	-40 °C to +75 °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	Gold Plating (without Nickel underplating)
Port 2 center contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)

Related Documents

Outline drawing	DOU-00306793
Instruction	DOC-0000732903

Remarks

ATEX/IEC Marking:

- II 3G Ex nA IIC T6...T5 Gc acc. EN 60079-15

- II 3D Ex tc IIIC T85°C...T100°C Dc acc. EN 60079-31

EU Declaration of Conformity (DoC): DOC-0000731654

Tamb: up to +75 °C for T6/T85°C or +80 °C for T5/T100°C

For RF power of various groups of equipment acc. EN 60079-0 see instruction

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Cable lug for grounding included

⚠ WARNING - DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED!

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