

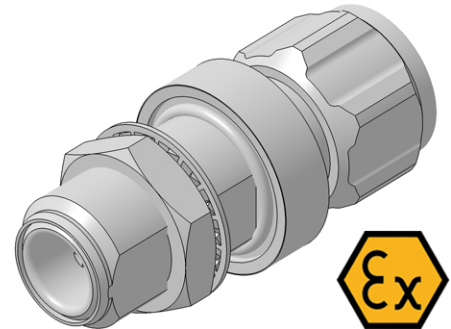
ATEX RF SPD 9096.17.0601

Description

ATEX RF SPD GDT 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
- DC continuity for remote powering
- Fix installed GDT, static sparkover-voltage nom. 200 V
- Compliant to IEC 61643-21



Product Configuration

Main path connectors	Port 1: <u>unprotected</u> , N plug (male) - Port 2: <u>protected</u> , N jack (female)
Mounting and grounding	MH24 (bulkhead mounting), brk (bracket)
Side of bulkhead	protected side

Technical Data

Electrical Data

Impedance	50 Ω		
Frequency range	0 - 5800 MHz	0 - 5600 MHz	5600 - 5800 MHz
Return loss	≥ 18.5 dB	≥ 20 dB	≥ 18.5 dB
Insertion loss	≤ 0.2 dB	≤ 0.2 dB	≤ 0.2 dB
RF CW power	≤ 6 W		
PIM 3rd order	not specified		
DC supply voltage	≤ 48 V		
DC current	≤ 1 A		
Surge current handling capability	10 single / 5 multiple kA (test pulse 8/20 μs)		
Residual pulse energy	250 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	84 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	Silver / Gold 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-00308218
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

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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

For remote powering voltage and current (dc/ac) see instruction

RF requirement for the transmission line connected to the device: VSWR min. 1:1.92 / return loss max. 10 dB

Cable lug for grounding included

!/\ WARNING - DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED!