Data Sheet

HUBER+SUHNER

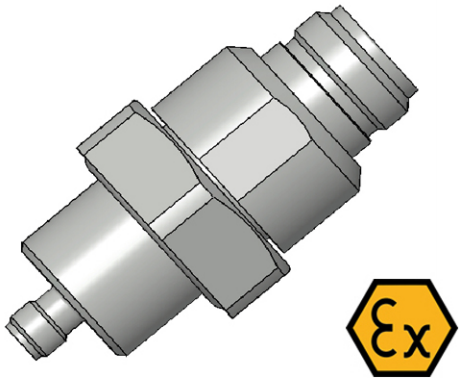
ATEX RF Entry Device
9097.00.ED01-M20

Description

ATEX RF Entry Device jack/jack
N jack (female) / SMA jack (female)

Certified flameproof "Ex d" entry device
For Zone 1 or Zone 21 of potentially explosive atmospheres

Interface standards
Series N - IEC 61169-16_MIL-STD-348A/304_CECC 22210
Series SMA - IEC 60169-15_MIL-STD-348A/310_CECC 22110



Technical Data

Electrical Data

Impedance	50 Ω	
Interface frequency max.	18 GHz	
Frequency range	DC to 3 GHz	3 to 6 GHz
Return loss	≥ 26 dB	≥ 20 dB

Mechanical Data

Number of matings	500
Weight	0.1 kg

Environmental Data

Operating temperature	-40 °C to 75 °C
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant

Material Data

Interface - N jack (female)

Piece Parts	Material	Surface Plating
Centre contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)
Outer contact	Stainless Steel	Passivated (Plating)
Body	Stainless Steel	Passivated (Plating)
Insulator	PTFE (Polytetrafluoroethylene)	

Interface - SMA jack (female)

Piece Parts	Material	Surface Plating
Centre contact	Copper Beryllium Alloy	Gold Plating (without Nickel underplating)
Outer contact	Stainless Steel	Passivated (Plating)
Body	Stainless Steel	Passivated (Plating)
Insulator	PTFE (Polytetrafluoroethylene)	

Related Documents

Outline drawing	DOU-00344358
Instruction	DOC-0000804209

Ordering Information

Single package	9097.00.ED01-M20

Remarks

= PRELIMINARY =

RF performance up to 18 GHz: Return Loss : typ. <= 15 dB, Insertion Loss typ. <= 0.3 dB

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ATEX/IEC Marking and Certification:
- II 2G Ex db eb IIC T6...T5 Gb acc. EN 60079-1, EN 60079-7
- II 2D Ex tb IIIC T85°C...T100°C Db acc. EN 60079-31
- EU-Type Examination Certificate: SEV 15 ATEX 0189 X, DOC-0000731045
- IECEx Certificate of Conformity: IECEx SEV 16.0009X, DOC-0000750280

EU Declaration of Conformity (DoC): DOC-0000731656
Ingress protection: IP67 with closed RF interface by means of an appropriate connector or protective blanking cap
Tamb: up to +75 °C for T6/T85°C or +80 °C for T5/T100°C
Thread size and style: M20x1.5
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

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