



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to
Compliant with
Derived from

Rosenberger SMA Reverse
FCC standard (part 15, section 15.203)
IEC 60169-15, EN 122110, MIL-PRF-39012

Documents

Assembly instruction

32 B5

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Gasket
Coupling nut
Crimping ferrule

Material

CuBe
Brass
PTFE
Silicone
Brass
Copper

Plating

AuroDur®, gold plated
AuroDur®, gold plated

Gold, 0.1 µm min.
AuroDur®, gold plated

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RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

SMA
Reverse

Straight Plug
Reverse Polarity

32RS147-302L5

Electrical data

Impedance	50 Ω
Frequency	DC to 12.4 GHz
VSWR	$\leq 1.05 + 0.01 \times f \text{ [GHz]}$
Insertion loss	$\leq 0.05 \times \sqrt{f \text{ (GHz)}} \text{ dB}$
Insulation resistance	$\geq 5 \times 10^3 \text{ M}\Omega$
Center contact resistance	$\leq 3 \text{ m}\Omega$
Outer contact resistance	$\leq 2 \text{ m}\Omega$
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	$\leq 200 \text{ W @ 2 GHz}$
RF-leakage	$\geq 100 \text{ dB up to 1 GHz}$

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	min. 100
Coupling nut retention	$\geq 180 \text{ N}$
Center contact captivation: axial	$\geq 27 \text{ N}$
Coupling test torque	max. 0.6 Nm
Recommended torque	0.5 Nm

Environmental data

Temperature range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Tooling

Crimping tool	11W150-000
Crimp insert	11W150-102

Suitable cables

RG 174 A/U, RG 188 A/U, RG 316 /U

Weight

Weight 3.2 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Gramsamer Sepp	22.02.05	Chr. Janßen	16.11.20	e00	20-1927	S. Huber-Siegl	16.11.20
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