



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

Interface

According to IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Coupling nut
Gasket
Substrate

Material

Brass
Brass
PTFE
Brass
Silicone
Al₂O₃

Plating

Gold, min. 1.27 μ m, over nickel
Gold, min. 0.8 μ m, over nickel
Gold, min. 0.15 μ m, over chemical nickel

SMA TERMINATION
PLUG 1 WATT

32S17B-1.0E3

Electrical data

Impedance 50 Ω ± 5%
 Frequency DC to 18 GHz
 Return loss ≥ 26.4 dB, DC to 1 GHz
 ≥ 19.1 dB, 1 GHz to 18 GHz
 Center contact resistance ≤ 3 mΩ
 Outer contact resistance ≤ 2 mΩ
 Impulse Power (1μs, 1%) 100 Watts at 25°C environment temperature
 Power handling 1 W at 25°C
 derated linearity to 0 Watts at 125°C

Mechanical data

Mating cycles ≥ 500
 Coupling nut retention ≥ 270 N
 Coupling test torque max. 1.7 Nm
 Recommended torque 0.8 Nm to 1.1 Nm

Environmental data

Temperature range -55°C to +155°C

Tooling

N/A

Suitable cables

N/A

Packing

Standard 100 pcs in blister
 Weight 2.3 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Kerstin Herzog	10/02/05	Frank Weiß	16/06/05	a00	04-0130	Siegmar Hoyer	15/03/05
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de		Page 2 / 2