



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  
Al<sub>2</sub>O<sub>3</sub>

**Plating**

Gold, min. 1.27  $\mu$ m, over nickel  
Gold, min. 0.8  $\mu$ m, over nickel  
Gold, min. 0.15  $\mu$ 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
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**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
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