

All dimensions are in mm; tolerances according to ISO 2768 m-H  
 Y = Part number has to be accomplished by codification

**Interface**

According to DIN 72594-1

**Documents**

Panel piercing MB\_190

**Material and plating**

**Connector parts**

Center contact	Brass
Outer contact	Brass
Body	Brass
Cover	Alpaca
Dielectric	PA 6.6T
Housing	PA 6T/66

**Plating**

Gold, min. 0.15 µm, over chemical nickel  
 Nickel, 2.5-5 µm  
 Tin, 6-8 µm

**Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 6 GHz
Return loss	$\geq 18$ dB
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 1 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 5$ m $\Omega$
Outer contact resistance	$\leq 5$ m $\Omega$
Test voltage	750 V rms
Working voltage	335 V rms
Power current	$\leq 1$ A DC

- Connector only, VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	$\geq 25$
Engagement force	$\leq 25$ N
Disengagement force	$\geq 2$ N
Retention force latch	$\geq 110$ N
Coding efficiency	$\geq 40$ N

**Environmental data**

Temperature range	-40°C to +105°C
Thermal shock	DIN 72594-2 clause 6.2
Temperature and humidity	DIN 72594-2 clause 6.3
Vibration and mechanical shock	DIN 72594-2 clause 6.1
Dry heat	DIN 72594-2 clause 6.4
Soldering profile 2002/95/EC (RoHS)	acc. IEC 60068-2-58 group 3&4 compliant















**Tooling**

N/A

**Packing**

Standard	100 pcs in blister tray
Weight	5.5 g/pce

Coding

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S2AX-400A5_A
 B	white	sim. 9001	59S2AX-400A5_B
 C	blue	sim. 5005	59S2AX-400A5_C
 D	bordeauxviolet	sim. 4004	59S2AX-400A5_D
 E	green	sim. 6002	59S2AX-400A5_E
 F	brown	sim. 8011	59S2AX-400A5_F
 G	grey	sim. 7031	59S2AX-400A5_G
 H	violet	sim. 4003	59S2AX-400A5_H
 I	beige	sim. 1001	59S2AX-400A5_I
 K	curry	sim. 1027	59S2AX-400A5_K
 L	carmine-red	sim. 3002	59S2AX-400A5_L
 M	pastell-orange	sim. 2003	59S2AX-400A5_M
 N	white-green	sim. 6019	59S2AX-400A5_N
 Z	waterblue	sim. 5021	59S2AX-400A5_Z
	traffic purple	sim. 4006	secondary lock

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
Thomas Höfling	01/08/06	T. Höfling	04/02/09	b00	08-0666	M. Singhammer	04/02/09
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>				Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>			Page 3 / 3