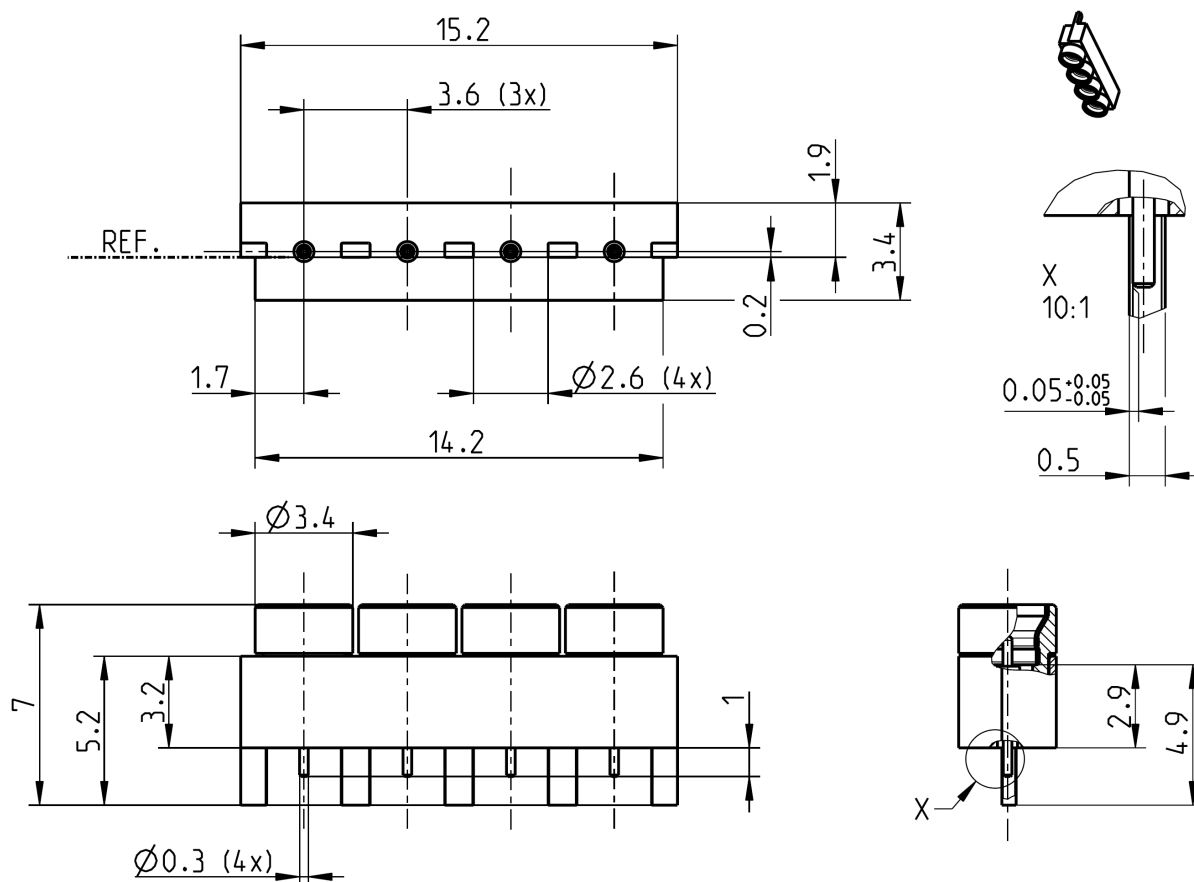




All dimensions are in mm; tolerances acc. ISO 2768 m-K

Interface

According to

MIL-STD-348

Mateable with GPPO™ (Gilbert Engineering Co., Inc.)
and SSMP™ (Connectors Devices, Inc.)

Documents

PCB layout

B 339G

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Brass
PEEK

Plating

AuroDur®, gold plated
AuroDur®, gold plated

TECHNICAL DATA SHEET

Rosenberger

Mini SMP RIGHT ANGLE PLUG PCB
FULL DETENT

18S20H-40ML5

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 35 dB, DC to 15 GHz ≥ 23 dB, 15 to 25 GHz ≥ 20 dB, 25 to 40 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Working voltage (at sea level)	325 V rms
(at 70000 feet)	125 V rms

- VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles	
if mating part is full detent	≥ 100
Center contact captivation	≥ 7 N (from interface side)
Engagement force	
- full detent	19 N typical
Disengagement force	
- full detent	29 N typical

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition A
Shock	MIL-STD-202, Method 213, Condition A
Moisture resistance	MIL-STD-202, Method 106
Climatic Category	IEC 60068 55/155/21
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 1.3 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
Gramsamer Josef	23/08/07	B_Aicher	08.12.15	e00	15-1674	C_Schmidinger	08.12.15
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 email: info@rosenberger.de		Page 2 / 2