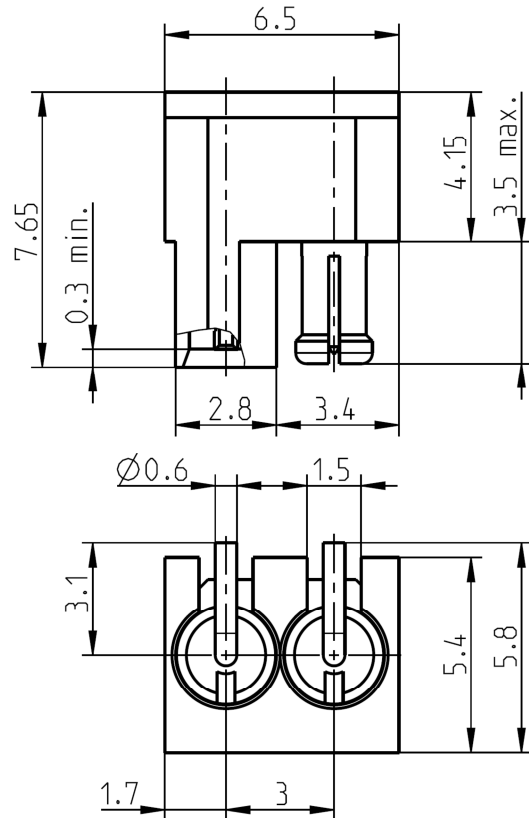
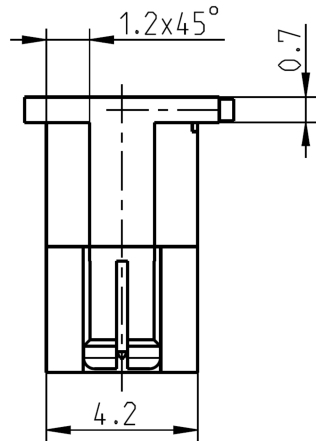




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

Rosenberger Mini-Coax

Documents

PCB-Layout

B 501

- for customized stack-up please contact Rosenberger optimized PCB-layout -

Material and plating

Connector parts

Center contact
Outer contact male
Outer contact female
Body
Dielectric

Material

CuBe or equiv.
CuBe
Brass
Brass
PTFE

Plating

AuroDur®, gold plated
AuroDur®, gold plated
AuroDur®, gold plated
AuroDur®, gold plated

Technical Data Sheet		Rosenberger					
Mini-Coax	2 Channel Block Straight	23C11F-40ML5					
Electrical data							
Impedance	50 Ω						
Frequency	DC to 20 GHz						
Return loss for feedthrough	≥ 20 dB @ DC to 3 GHz ≥ 16 dB @ 3 GHz to 8 GHz						
Return loss for SMD	≥ 25 dB @ DC to 3 GHz ≥ 20 dB @ 3 GHz to 6 GHz ≥ 16 dB @ 6 GHz to 20 GHz						
Insertion loss	≤ 0.05 x √f [GHz] dB						
Insulation resistance	≥ 1GΩ						
Center contact resistance	≤ 10 mΩ						
Outer contact resistance	≤ 3 mΩ						
Test voltage (at sea level)	750 V rms						
Working voltage (at sea level)	500 V rms						
RF-leakage	≥ 80 dB @ DC to 1 GHz ≥ 60 dB @ 1 GHz to 4 GHz						
- Connector only, VSWR in application depends decisive on PCB layout –							
Mechanical data							
Mating cycles	≥ 500						
Engagement force	max. 8 N typical 5 N						
Extraction force	max. 12 N typical 10.5 N						
Environmental data							
Temperature range	-40 °C to +125 °C						
Climatic category	IEC 60068-2-1 40/85/21						
Dry heat	IEC 60068-2-2						
Damp heat	IEC 60068-2-78						
Shock	IEC 60068-2-27 (50g halfsinus, 2 shocks/axis during 11 sec.)						
Max. soldering temperature	IEC 61760-1, +260 °C for 10 sec.						
RoHS	compliant						
Tooling							
	N/A						
Suitable cables							
	N/A						
Weight							
Weight	1.1 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
Herbert Babinger	28.07.08	Martin Moder	09.03.15	a00	15-s120	B.Zimmerle	09.03.15
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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[23C11F-40ML5](#)