

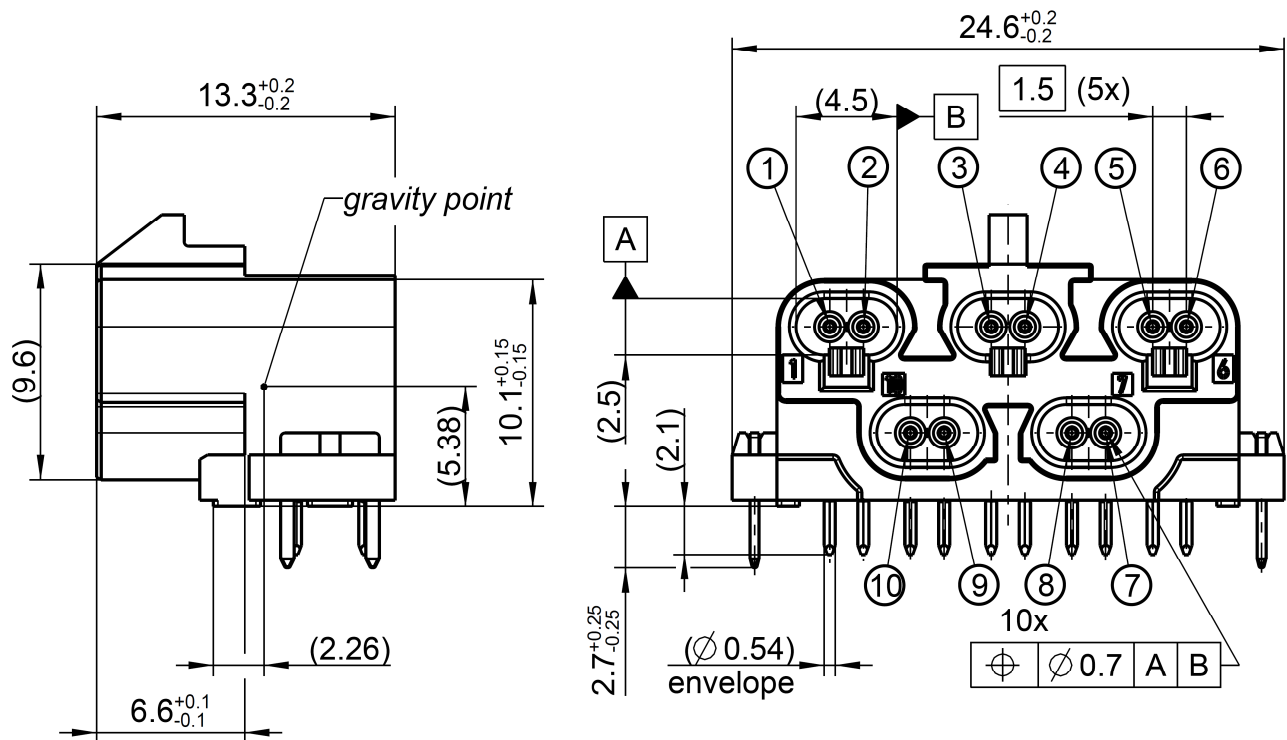
Technical Data Sheet

Rosenberger

MTD®

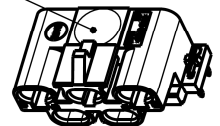
RIGHT ANGLE PLUG
FOR PCB

E7S21E-40MX5-Y



suction area for pick & place

○ = pinning



All dimensions are in mm

Y = Part number has to be accomplished by codification

Documents

Interface	RN_132-05
Pinning instruction	RN_131-05
Panel piercing	MB_522
Tape & reel packaging	VG440.18500

Material and plating

Connector parts

Contact pin

Material

Tin bronze

Plating / Colour

Gold, 0.15 µm (Interface)

Tin, min. 2 µm (PCB)

see section "Coding"

Tin, min. 3 µm

Housing

PA6-GF33

Soldering Pin

Brass

Electrical data

Differential impedance	100 $\Omega \pm 5\%$ at 500 ps rise time	
Frequency range	DC to 1.0 GHz	
Return loss	$\geq 38dB$	1 MHz to 75 MHz
	$\geq 20 - 20 \log\left(\frac{f}{600}\right) dB$	75 MHz to 600 MHz
Insertion loss	$\leq 0.01 \times \sqrt{f} dB$	1 MHz to 600 MHz
Mode conversion loss	$\geq 55dB$	10 MHz to 50 MHz
	$\geq 89 - 20 \log(f) dB$	50 MHz to 600 MHz
PSANEXT loss	$\geq 54dB$	1 MHz to 100 MHz
	$\geq 34.8dB$	100 MHz to 600 MHz
PSAFEXT loss	$\geq 46.6dB$	1 MHz to 100 MHz
	$\geq 31.1dB$	100 MHz to 600 MHz
AFEXTDC loss	$\geq 50dB$	10 MHz to 50 MHz
	$30 - 18.53 \cdot \log\left(\frac{f}{600}\right) dB$	50 MHz to 600 MHz
Insulation resistance	$\geq 1 \times 10^3 M\Omega$	
Signal contact resistance	$\leq 10 m\Omega$	
Test voltage	250 V rms	
Working voltage	60 V DC	
Power current	$\leq 1.5 A DC$	

Only with metallised housing of counterpart. E.g. E7Z020-000-Y

Mechanical data

Mating cycles	min. 25
Engagement force	$\leq 45 N$
Retention force latch	$\geq 110 N$
Coding efficiency	$\geq 80 N$
Weight	$\sim 2,5 g/pce$

Environmental data

Temperature range	-40°C to +105°C
Soldering profile	acc. to IEC 60068-2-58; Group 3 (250°C/30s)
RoHS	compliant

Packing

Standard	185 pcs in tape & reel
----------	------------------------

Technical Data Sheet

Rosenberger

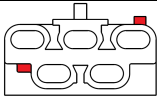
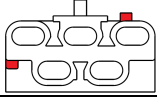
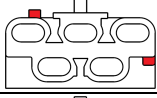
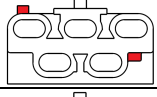
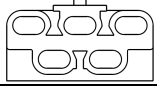
MTD®

RIGHT ANGLE PLUG
FOR PCB

E7S21E-40MX5-Y

Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		jet black	sim. 9005	E7S21E-40MX5-A
B		pure white	sim. 9010	E7S21E-40MX5-B
C		light blue	sim. 5012	E7S21E-40MX5-C
D		claret violet	sim. 4004	E7S21E-40MX5-D
Z		water blue	sim. 5021	E7S21E-40MX5-Z

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
M. Babl	08.08.19	B. Braun	14.03.22	a00	22-s072	F. Huber	14.03.22

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

3 / 3