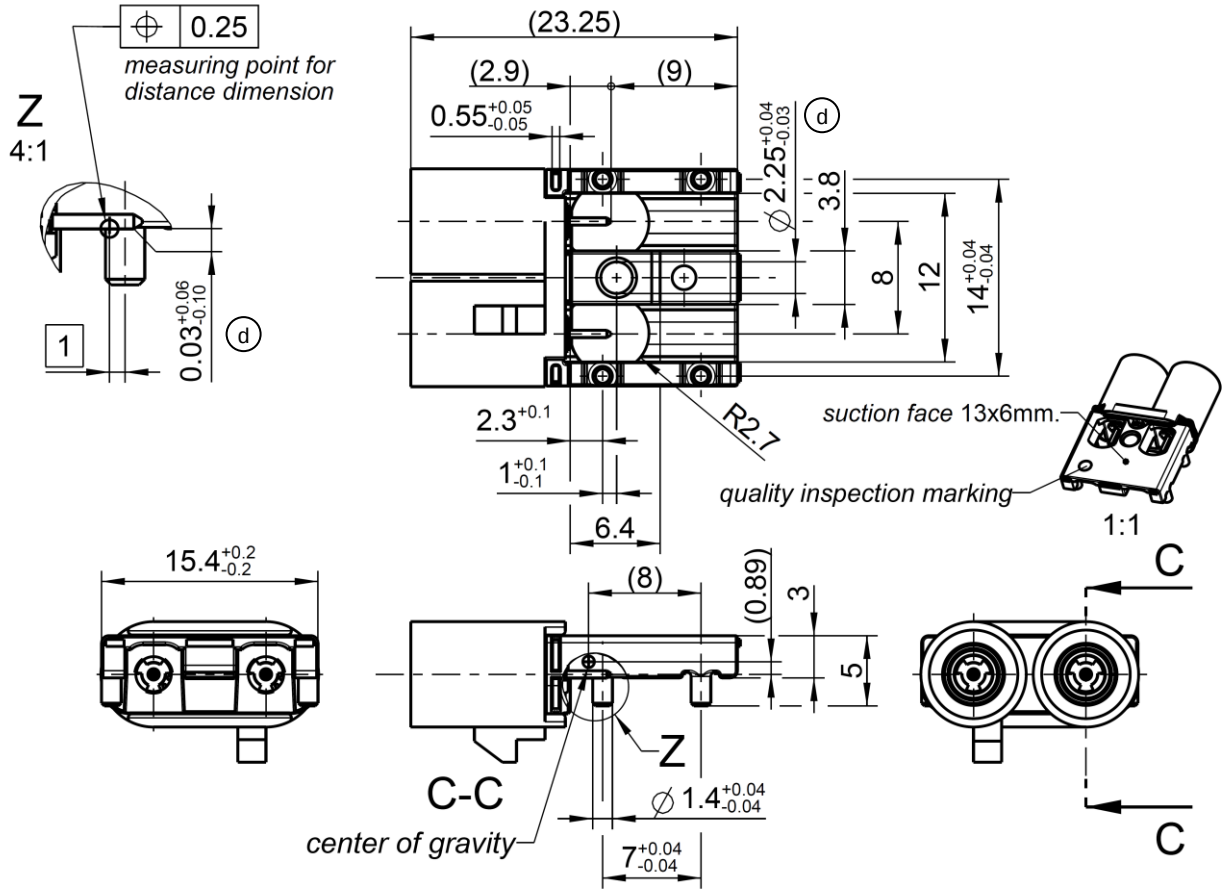
Technical Data Sheet		Rosenberger
FAKRA-HF	PLUG FOR PCB	**59S2DU-40MT5-Y**



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

Interface

According to	DIN 72594-1

Documents

Assembly instruction	MA_59V048
PCB layout	MB_182
Tape & reel packaging	VG118.30000

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated
Outer contact	Zinc alloy	Tin, 2 µm min., over Nickel 1 µm min. (d)
Dielectric	PA 6T/66	
Housing	PA 6T/66	

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Electrical data

Impedance	50 Ω (b)
Frequency	DC to 6 GHz
Return loss measured on 50Ω footprint	≥ 23 dB (DC to 2,4 GHz) ≥ 20 dB (2.4 GHz to 4 GHz) ≥ 17 dB (4 GHz to 6 GHz)
Insertion loss	≤ 0.15 x dB
Insulation resistance	≥ $1x10^3$ MΩ
Center contact resistance	≤ 15 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	750 V rms
Working voltage	335 V rms
Power current	≤ 1 A DC

- Limitations are possible due to the used cable type -
- Connector only, VSWR in application depends decisive on PCB layout

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 50 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 40 N

Environmental data

Temperature range	-40 °C to +105 °C
Thermal shock	DIN 72594-2 clause 8.2
Temperature and humidity	DIN 72594-2 clause 8.3
Vibration and mechanical shock	DIN 72594-2 clause 8.1
Dry heat	DIN 72594-2 clause 8.4
Soldering profile	acc. to IEC 60068-2-58 group 3&4
RoHS	compliant (b)

Tooling

N/A

Suitable cables

N/A

Packing

Standard	300 pcs on tape & reel
Weight	4,00 g/pce

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