imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical Data Sheet			Rosenberger		
7-16	Calibration Kit Jack		60K36R-MSON3		
All dimensio	85 85 •••••••••••••••••••••••••••••••••		ats 25		
Interface According to		IEC 6116	9-4, EN 122190, DIN 47223		
Prin • Test • Lan	livered with Idard Definitions Card ted Standard Definitions that ca t Results Documentation	n be used	on nearly all Vector Network Analyzers		
Material an Connector Center cond Outer cond Body Dielectric Substrate	parts ductor	Material CuBe Brass Brass PP Al ₂ O ₃	Plating Gold, min. 1.27 μm, over nickel Flash white bronze over silver(e.g. C powder coated	Optargen®)	
Rosenberger Ho P.O.Box 1260 www.rosenberg	ochfrequenztechnik GmbH & Co. K D-84526 Tittmoning Germar er.de		Tel. : +49 8684 18-0 Email : info@rosenberger.de	Page 1 / 3	

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Technical Data Sheet

7-16

Calibration Kit Jack

Rosenberger

60K36R-MSON3

Electrical data					
Frequency range	DC to 6 GHz				
Open Return loss Error from nominal phase ¹	\leq 0.15 dB, DC to 6 GHz \leq 3.0°, DC to 6 GHz				
<u>Short</u> Return loss Error from nominal phase ²	\leq 0.15 dB, DC to 6 GHz \leq 3.0°, DC to 6 GHz				
Load Return loss DC-Resistance Power handling	≥ 40 dB, DC to 2.5 GHz ≥ 38 dB, 2.5 GHz to 6 GHz 50 $\Omega \pm 0.5 \Omega$ < 1.0 W				
¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances ² The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance					

Mechanical data	
Mating cycles	≥
Maximum torque	30
Recommended torque	2.
Gauge	1.

500 0 Nm .26 Nm .77 mm to 2.07 mm

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

50 Ω

Open

Offset Z_o / Impedance / Z_o Offset Delay Length (electrical) / Offset Length Offset Loss Loss Fringing Capacitances

87.394 ps 26.20 mm 0.50 GΩ/s 0.0076 dB/ \sqrt{GHz} $C_0 = 177.000 \times 10^{-15} F$ / 177.000 fF $C_1 = 7200.00 \times 10^{-27} F/Hz$ / 7.20000 fF /GHz $C_2 = -3300.00 \times 10^{-36} F/Hz^2$ / -3.30000 fF /GHz² $C_3 = 386.000 \times 10^{-45} \text{ F/Hz}^3$ / 0.38600 fF /GHz³

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7-16 Calibration Kit Jack 60K36R-MSON3 Short Offset Delay Length (electrical) / Offset Length Offset Loss 50 Ω 96.734 ps Loss 0.000 Add/GHz Short Inductance L ₀ = 0.0000 x 10 ⁻¹² H / 0.0000 pH Lass 0.0000 x 10 ⁻²⁴ H/Hz / 0.0000 pH/GHz Las 0.0000 x 10 ⁻³⁴ H/Hz / 0.0000 pH/GHz Las 0.0000 x 10 ⁻⁴² H/Hz / 0.0000 pH/GHz ² Las 0.0000 x 10 ⁻⁴² H/Hz / 0.0000 pH/GHz ² Lag = 0.0000 x 10 ⁻⁴² H/Hz / 0.0000 pH/GHz ² Lag = 0.0000 x 10 ⁻⁴² H/Hz ² / 0.0000 pH/GHz ² Lag = 0.0000 x 10 ⁻⁴² H/Hz ² / 0.0000 pH/GHz ² Lag = 0.0000 x 10 ⁻⁴² H/Hz ² / 0.0000 pH/GHz ² Lag = 0.0000 x 10 ⁻⁴² H/Hz ² / 0.0000 pH/GHz ³ Cad 0.000 ffset Loss 0.000 GΩ/s 0.000 GΩ/s Length (electrical) / Offset Length 0.000 GΩ/s 0.000 GΩ/s 0.000 GΩ/s Operating temperature range 0.°C to +50 °C <th< th=""><th colspan="2">Technical Data Sheet</th><th colspan="4">Rosenberger</th></th<>	Technical Data Sheet		Rosenberger			
Offset Z _o / Impedance / Z _o 50 Ω Offset Delay 96.734 ps Length (electrical) / Offset Length 29.00 mm Offset Loss 0.00084 dB/ \sqrt{GHz} Loss 0.0000 x 10 ⁻¹² H / Short Inductance L ₀ = 0.0000 x 10 ⁻¹² H / 0.0000 pH/GHz L ₂ = 0.0000 x 10 ⁻²⁴ H/Hz / 0.0000 pH/GHz L ₂ = 0.0000 x 10 ⁻⁴² H/Hz ³ 0.0000 pH/GHz ² L ₃ = 0.0000 x 10 ⁻⁴² H/Hz ³ / 0.0000 pH/GHz ³ J J J Offset Z ₀ / Impedance / Z ₀ 50 Ω 00000 ps 0.0000 pH/GHz ³ J J J 0.0000 pH/GHz ³ Load Offset Z ₀ / Impedance / Z ₀ 50 Ω 0.0000 ps J J J 0.0000 pH/GHz ³ Loss 0.000 nm 0.000 GD/s 0.000 GD/s J J J J J J J O S S J	7-16		60K36R-MSON3			
Offset Z _o / Impedance / Z _o 50 Ω Offset Delay 0.0000 ps Length (electrical) / Offset Length 0.000 mm Offset Loss 0.00 GA/s Loss 0.0000 dB/ \sqrt{GHz} Environmental data 0 °C to +50 °C Operating temperature range - 55 °C to +90 °C Storage temperature range - 55 °C to +90 °C Gompliant - 55 °C to +90 °C ° compliant ° Temperature range over which these specifications are valid. Declaration of documentation Standard delivery for this kit includes Test Results. The documentation issued reports which quantities were tested individually, traceable to national / international standards. Model based standard definitions of the calibration standards are reported in Agilent / Keysight, Rohde & Schwarz and Anritsu compatible VNA format Inspection interval 12 months Recommendation 12 months	Offset Z _o / In Offset Delay Length (elec Offset Loss Loss	, trical) / Offset Length	96.734 ps 29.00 mm 0.50 GΩ/s 0.0084 dB/ \sqrt{GHz} L ₀ = 0.0000 x 10 ⁻¹² H / 0.0000 pH L ₁ = 0.0000 x 10 ⁻²⁴ H/Hz / 0.0000 pH/GHz L ₂ = 0.0000 x 10 ⁻³³ H/Hz ² / 0.0000 pH/GHz ²			
Operating temperature range ³ 0 °C to +50 °C Storage temperature range - 55 °C to +90 °C RoHS compliant ³ Temperature range over which these specifications are valid. Declaration of documentation Standard delivery for this kit includes Test Results. The documentation issued reports which quantities were tested individually, traceable to national / international standards. Model based standard definitions of the calibration standards are reported in Agilent / Keysight, Rohde & Schwarz and Anritsu compatible VNA format Inspection interval Recommendation 12 months Standard 1 pce in bag	Offset Z _o / In Offset Delay Length (elec Offset Loss	,	0.0000 ps 0.000 mm 0.00 GΩ/s			
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Recommendation 12 months Packing Image: Standard Standard 1 pce in bag	Standard de tested individ	livery for this kit includes Test dually, traceable to national /	nternational standards. Model based standard definitions of the			
Standard 1 pce in bag			12 months			
	Standard					

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
Kerstin Herzog	10.07.06	Herbert Babinger	19.10.17		h00	17-s336	M. Knoll	19.10.17
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