



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

Available variants

Type	Length "A" (mm)	Insertion loss ≤ (dB) at 40 GHz	Weight (g) / pce
LU1-034-4000	4000	11.90	1050
LU1-034-3000	3000	9.00	832
LU1-034-2000	2000	6.20	605
LU1-034-1500	1500	4.80	507
LU1-034-1220	1220	4.00	447
LU1-034-1000	1000	3.40	399
LU1-034-800	800	2.80	355
LU1-034-700	700	2.50	334
LU1-034-600	600	2.20	312

Documents

Technical data sheet connector left
 Technical data sheet connector right
 Technical data sheet cable

RPC-2.40 ruggedized jack
 RPC-2.92 plug
 RTK 106

09KR123-2U1S3
 02S123-2U1S3

TECHNICAL DATA SHEET

Rosenberger

CABLE ASSEMBLY RPC-2.40 JACK / RPC-2.92 PLUG

LU1-034-XXX

Assembly parts

Connector left	RPC-2.40 ruggedized jack	09KR123-2U1S3
Connector right	RPC-2.92 plug	02S123-2U1S3
Cable	RTK 106	
Armour	Metal tubing with fixed bending rate and protection braid	

Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss	≥ 26 dB, DC to 4 GHz ≥ 17 dB, 4 GHz to 40 GHz
Insertion loss	see table available variants
Phase deviation: After 90° bending	$\leq 1.3^\circ$, DC to 4 GHz $\leq 6.0^\circ$, 4 GHz to 40 GHz
Straight after 3x90° bending	$\leq 1.0^\circ$, DC to 4 GHz $\leq 4.0^\circ$, 4 GHz to 40 GHz
Amplitude stability	≤ 0.03 dB, DC to 4 GHz ≤ 0.08 dB, 4 GHz to 40 GHz
Return loss stability	≥ 45 dB, DC to 4 GHz ≥ 35 dB, 4 GHz to 40 GHz
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Minimum bend radius	60 mm
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Environmental data

Temperature range	-40°C to +85°C
RoHS	compliant

Packing

Standard	1 pce in box
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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	17/07/06	O. Krautenbacher	21/01/14	j00	14-s033	Maik Knoll	21/01/14

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