



Contents

Device	Part number	Quantity
Cable assembly RPC-1.85 ruggedized jack / RPC-1.85 plug	LU5-107-600	1
Cable assembly RPC-1.85 ruggedized jack / RPC-1.85 jack	LU5-106-600	1

Documents

Technical data sheet cable assembly:
RPC-1.85 ruggedized jack / RPC-1.85 plug
RPC-1.85 ruggedized jack / RPC-1.85 jack

LU5-107-XXX
LU5-106-XXX

Electrical data

Impedance	50 Ω
Frequency	DC to 70 GHz
Return loss	≥ 26 dB, DC to 4 GHz ≥ 22 dB, 4 GHz to 20 GHz ≥ 15 dB, 20 GHz to 50 GHz ≥ 14 dB, 50 GHz to 70 GHz
Insertion loss	≤ 4.60 dB at 70GHz
Phase deviation: After 90° bending	≤ 1.0°; DC to 4 GHz ≤ 3.0°; 4 GHz to 20 GHz ≤ 7.0°; 20 GHz to 70 GHz
Straight after 3x90° bending	≤ 1.0°; DC to 4 GHz ≤ 2.0°; 4 GHz to 20 GHz ≤ 4.0°; 20 GHz to 70 GHz
Amplitude stability	≤ 0.03 dB, DC to 4 GHz ≤ 0.10 dB, 4 GHz to 20 GHz ≤ 0.20 dB, 20 GHz to 50 GHz ≤ 0.30 dB, 50 GHz to 70 GHz
Return loss stability	≥ 45 dB, DC to 20 GHz ≥ 35 dB, 20 GHz to 50 GHz ≥ 30 dB, 50 GHz to 70 GHz
RF-leakage	≥ 100 dB up to 1 GHz

Mechanical data

Minimum bend radius	60 mm
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Environmental data

Operating temperature range	+20°C to +26°C
Storage temperature range	-40°C to +85°C
2002/95/EC (RoHS)	compliant

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
Martin Moder	28/06/12	Herbert Babinger	20/02/13	b00	13-0004	Manuela Fuehrich	20/02/13

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