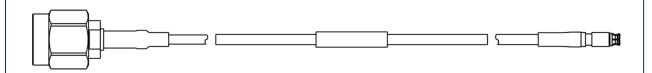
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Technical Data Sheet

Rosenberger

Cable assembly RPC-1.85 / WSMP – RTK-Flex047

70U-08S1-W1K1-XXXXXMY



All dimensions are in mm; tolerances:

 \leq 100: XXX ± 2.0; > 100 to \leq 1500: XXX ± 5.0; > 1500 to \leq 3000: XXX ± 10.0; > 3000: ± 1.5%

| Available variants |
|--------------------|
|--------------------|

| Туре | Max Insertion Loss | Marking | Weight (g) / pce | |
|-----------------------|------------------------------------|--|--------------------------------|--|
| 70U-08S1-W1K1-XXXXXMY | ≤ 0.0137 dB/mm * A mm + 1.42 dB | Rosenberger NA wwyy 70U-08S1-W1K1-XXXXXMY | 0.0052 g/mm * A mm + 2.97 g | |

XXXXX - length in mm = A MY - (M) matching type:

P = pair matched; L = lot matched; within (Y) picoseconds measured at midband

ww – week yy – year $A \ge 102$ mm: Also marked with delay value in picoseconds and pair or lot ID

Note: max Insertion Loss:

First Constant = Cable attenuation in dB/mm; Second Constant = Connector left and Connector right

Neight:

First Constant = Cable weight per mm; Second Constant = Connector left and Connector right per pce

Assembly parts

Connector left RPC-1.85 Plug 08S141-270L5
Connector right WSMP Jack W1K101-270D3
Cable RTK-Flex 047

Electrical data

Insertion Loss¹

Delay Matching

Impedance 50 Ω

Frequency DC to 70 GHz
Return Loss¹ ≥ 15 dB, DC to

Return Loss¹ ≥ 15 dB, DC to 18 GHz ≥ 10 dB, 18 GHz to 50 GHz ≥ 8 dB, 50 GHz to 70 GHz

≥ 8 dB, 50 GHz to 70 GHz see table available variants PY: pair-matched within Y ps

LY: lot-matched within Y ps, lots ≤ 25 pcs

Mechanical data

Minimum bend radius:

Single 5 mm Multiple 10 mm

Environmental data

Temperature range -40°C to +125°C 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 | Date | Rev. | Engineering change number | Name | Date |
|--|--------------|---|--------------|---|------|------|---------------------------|------------|------------|
| Liz | zzy Beller | 01/08/20 | Mark Bennett | 01/20/2020 | | a00 | 20-u000 | J. Havener | 12/18/2020 |
| Rosenberger North America P.O. Box 309 Akron, PA USA 17501 | | | | Tel. : +1.717.859.8900 Fax : +1.717.859.7044 | | | Page | | |
| www | v.rosenberge | ox 309 Akron, PA USA 17501 Fax : +1.717.859.7044 osenbergerna.com Email : info@rosenbergerna.com | | | | | 1 / 1 | | |

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¹ Return Loss and Insertion Loss includes the measurement adaptor

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70U-08S1-W1K1-00305P2