



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

Interface

According to
Mechanically compatible with

IEC 61169-32
RPC-2.40

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Substrate

Material

Beryllium copper
Stainless steel
PS
Al₂O₃

Plating

Gold, min. 1.27 µm, over nickel
Passivated

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RF_35/09.14/6.2

| Technical Data Sheet | | | | Rosenberger | | | |
|--|----------|---------------|----------|---|---------------------------|------------------|----------|
| RPC-1.85 | | Mismatch Jack | | 08K150-060S3 | | | |
| Electrical data | | | | | | | |
| Frequency | | | | DC to 70 GHz | | | |
| Return loss | | | | ≥ 1.2 ± 0.09, DC to 26.5 GHz | | | |
| | | | | ≥ 1.2 ± 0.15, 26.5 GHz to 70 GHz | | | |
| DC Resistance | | | | 60 Ω ± 0.30 Ω | | | |
| Power handling (at 25 °C, sea level) | | | | ≤ 0.5 W, derated linearity by 0.005 W/K | | | |
| Mechanical data | | | | | | | |
| Mating cycles | | | | ≥ 500 | | | |
| Maximum torque | | | | 1.65 Nm | | | |
| Recommended torque | | | | 0.90 Nm | | | |
| Gauge | | | | 0.00 mm to 0.03 mm | | | |
| Environmental data | | | | | | | |
| Operating temperature range ¹ | | | | +20 °C to +26 °C | | | |
| Rated temperature range of use ² | | | | 0 °C to +50 °C | | | |
| Storage temperature range | | | | - 40 °C to +85 °C | | | |
| RoHS | | | | compliant | | | |
| ¹ Temperature range over which these specification are valid. | | | | | | | |
| ² This range is underneath and above the operating temperature range, within the mismatch is fully functional and could be used without damage. | | | | | | | |
| Declaration of calibration options | | | | | | | |
| Factory Calibration | | | | | | | |
| Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, traceable to national / international standards. | | | | | | | |
| Accredited Calibration | | | | | | | |
| Not available. | | | | | | | |
| For further, more detailed information see application note AN001 on the Rosenberger homepage. | | | | | | | |
| Calibration interval | | | | | | | |
| Recommendation | | | | 12 months | | | |
| Packing | | | | | | | |
| Standard | | | | 1 pce in box | | | |
| Weight | | | | 7.6 g/pce | | | |
| 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 | 05.02.08 | Markus Müller | 11.10.19 | e00 | 19-1910 | Marion Striegler | 11.10.19 |
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