



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

Interface

According to IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut

Material

CuBe
Brass
Stainless steel

Plating

Gold, min. 1.27 µm, over chemical nickel
Gold, min. 1.27 µm, over chemical nickel
Passivated

RPC-N 50 Ω MISMATCH
AIRLINE PLUG/JACK

05S102-K100

Electrical data

Impedance 50 Ω section	50 Ω ± 0.30 Ω
Impedance 25 Ω section	25 Ω ± 0.20 Ω
Frequency	0.3 GHz to 18 GHz
Center contact resistance	≤ 1.0 mΩ
Outer contact resistance	≤ 1.0 mΩ

Mechanical data

Mating cycles	≥ 500
Coupling test torque	1.70 Nm
Recommended torque	0.70 Nm to 1.10 Nm
Airline dimensions:	
- Outer diameter	7.000 mm ± 0.005 mm
- Inner diameter 50 Ω section	3.040 mm ± 0.010 mm
- Inner diameter 25 Ω section	4.615 mm ± 0.010 mm
- Length airline outer contact	100.00 mm + 0.02 mm
- Length airline center contact	100.00 mm – 0.02 mm
- Difference (outer/center-contact)	max. 0.04 mm
- Length 25 Ω section	75.00 mm ± 0.05 mm

Environmental data

Temperature range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	108.3 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
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