



All dimensions are in mm

Interface

According to
Mechanically compatible with
HFM according to

IEC 61169-35
RPC-3.50 and SMA
RN_108-01

Documents

Electrical requirement

RN_107-01

Material and plating

Connector parts

Center contact
Outer contact RPC-2.92
Outer contact HFM
Dielectric RPC-2.92
Dielectric HFM
Coupling nut RPC-2.92
Gasket RPC-2.92
Body
Housing HFM
Secondary lock HFM

Material

CuBe
Stainless steel
Brass
PS
PA12
Stainless steel
Silicone
Brass
PBT GF20
PBT GF20

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Gold, min. 1.27 µm, over chemical nickel
Passivated
AuroDur®, gold plated

öffentlich | public

Electrical data

Frequency	DC to 20 GHz
Return loss	≥ 30 dB, DC to 3 GHz ≥ 25 dB, 3 GHz to 6 GHz ≥ 20 dB, 6 GHz to 12 GHz ≥ 18 dB, 12 GHz to 20 GHz
Insertion loss	≤ 0.01 x $\sqrt{f(\text{GHz})}$ dB

Mechanical data

	RPC-2.92	HFM
Mating cycles	≥ 500	≥ 500 ³
Mating cycles housing		≥ 25
Maximum torque	1.70 N	
Recommend torque	0.80 Nm to 1.10 Nm	
Engagement force		≤ 15 N
Disengagement force		≥ 2 N
Gauge	0.00 mm to 0.08 mm	

³ Limitations are possible due to the quality of the used mating connector

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 specifications are valid.

² This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage

Weight

10.1 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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							Page 2 / 2