



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

Interface

RPC-1.85 according to	IEC 61169-32
RPC-1.85 mechanically compatible with	RPC-2.40
Waveguide	WR-19
Flange	UG-383/U-M

Material and plating

Connector parts

Center conductor
Outer conductor RPC-1.85
Coupling nut
Waveguide

Material

CuBe
Stainless steel
Stainless steel
Brass

Plating

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

Electrical data

Impedance	50 Ω
Frequency	40 GHz to 60 GHz
Return loss	≥ 20 dB, 40 GHz to 60 GHz
Insertion loss	≤ 0.5 dB, 40 GHz to 60 GHz

Mechanical data

Mating cycles RPC-1.85	≥ 500
Maximum torque RPC-1.85	1.70 Nm
Recommended torque RPC-1.85	0.90 Nm
Recommended torque WR19	1.10 Nm
Gauge RPC-1.85	0.00 mm to 0.05 mm

Environmental data

Temperature range	- 40 °C to +85 °C
RoHS	compliant

Packing

Standard	1 pce in box
Weight	35 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Marcel Panicke	07.06.18	Lars Ramtke	28.06.21	b00	21-1076	Marion Striegler	28.06.21