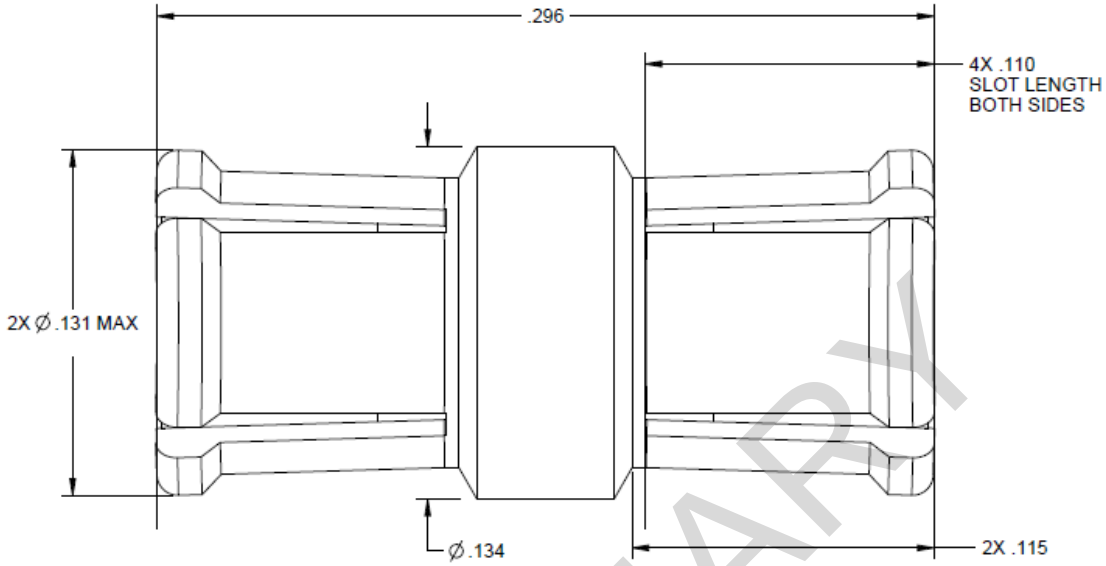
Technical Data Sheet		Rosenberger
SMP	Female to Female Bullet, .296” length	**19K1RN19-K36D3**



All dimensions are in inches
Unless otherwise specified tolerances are as follows:
.XXX±.002

Interface

According to — Rosenberger SMP Interface standards and latest revision of MIL-STD-348

Material and plating

Connector parts	Material	Plating
Body and Contact	BeCu per ASTM B196	Hard gold per ASTM B488, 50µIN min, over Nickel per AMS-QQ-N-290, 50µIN min
Dielectric	PTFE per ASTM D1710	

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Technical Data Sheet		Rosenberger
SMP	Female to Female Bullet, .296” length	**19K1RN19-K36D3**

Electrical data (@ STP unless otherwise specified)

Impedance (nominal)	50 Ω
Frequency	DC to 26.5 GHz
VSWR	≤ 1.35:1, DC to 26.5 GHz
Insertion loss	≤ .25 dB to 26.5 GHz
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test Voltage	500 V rms
RF High Potential	325 V rms @ 5 MHz

Mechanical data

Mating cycles	
Full Detent	≥ 100
Limited Detent	≥ 500
Smooth Bore	≥ 1000
Engagement force (max)	
Full Detent	15 lb_f
Limited Detent	10 lb_f
Smooth Bore	2 lb_f
Disengagement force (min)	
Full Detent	5 lb_f
Limited Detent	2 lb_f
Smooth Bore	0.5 lb_f

Environmental data

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202 – 107, Condition B
Vibration	MIL-STD-202 – 204, Condition B
Shock	MIL-STD-202 – 213, Condition A
Moisture resistance	MIL-STD-202 – 106, except Step 7B
2002/95/EC (RoHS)	compliant

Draft	Date	Approved	Date
L.Evangelista	9/21/23	B.Fisher	9/22/23

Rev.	Engineering change number	Name	Date
200	OAL change from .309 to .296	L.Evangelista	9/26/23

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