

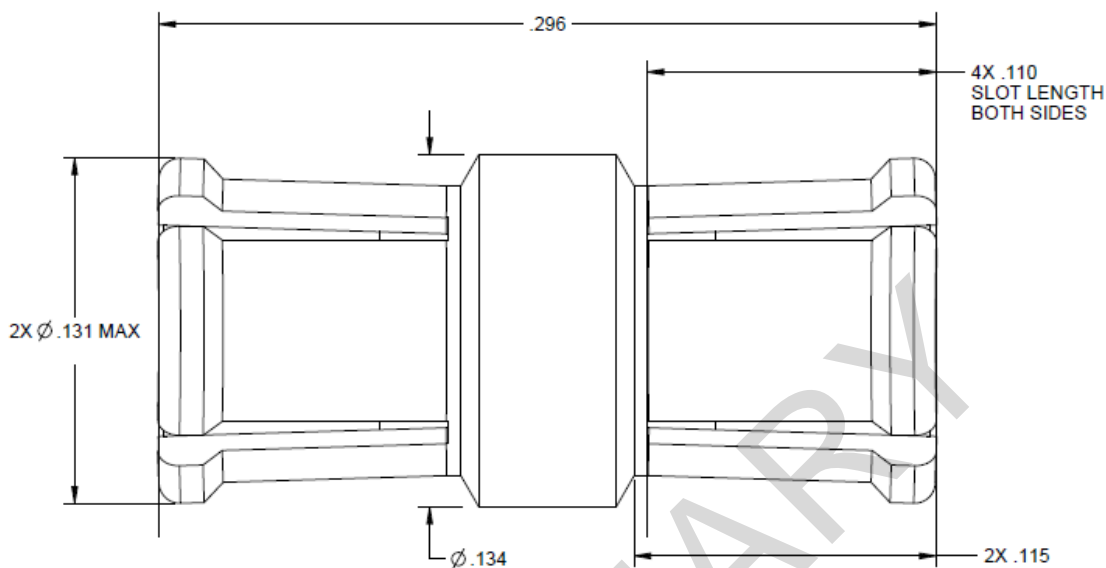
# Technical Data Sheet

# 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

Body and Contact

### Material

BeCu per ASTM B196

### Plating

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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## Electrical data (@ STP unless otherwise specified)

Impedance (nominal)	50 $\Omega$
Frequency	DC to 26.5 GHz
VSWR	$\leq 1.35:1$ , DC to 26.5 GHz
Insertion loss	$\leq .25$ dB to 26.5 GHz
Insulation resistance	$\geq 5$ G $\Omega$
Center contact resistance	$\leq 6.0$ m $\Omega$
Outer contact resistance	$\leq 2.0$ m $\Omega$
Test Voltage	500 V rms
RF High Potential	325 V rms @ 5 MHz

## Mechanical data

Mating cycles	
Full Detent	$\geq 100$
Limited Detent	$\geq 500$
Smooth Bore	$\geq 1000$
Engagement force (max)	
Full Detent	15 lbf
Limited Detent	10 lbf
Smooth Bore	2 lbf
Disengagement force (min)	
Full Detent	5 lbf
Limited Detent	2 lbf
Smooth Bore	0.5 lbf

## 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

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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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