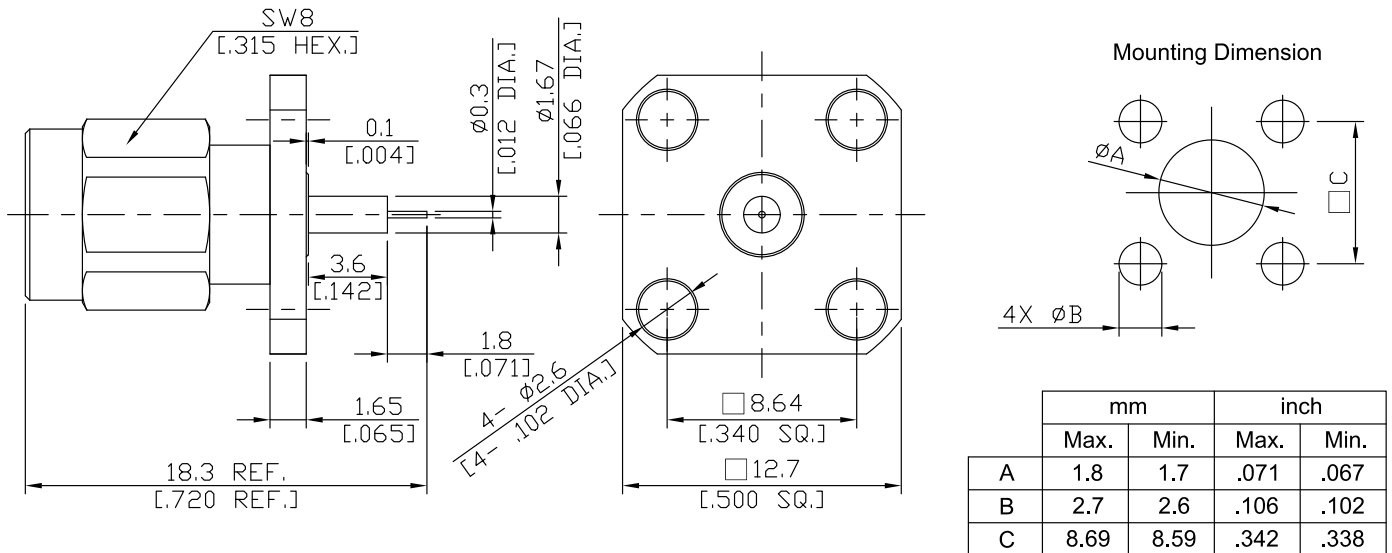


2.92mm Plug (Male) Connector Solder Attachment 4 Hole Flange Mount 0.3mm (.012")  
Coaxial Terminal, 8.64mm (.340") Hole Spacing DC-40GHz, VSWR 1.20

## K1GFA50-1830A / 9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to IEC 61169-35; IEEE Std 287  
Mechanically compatible with 3.50mm and SMA

### Electrical Data

Impedance 50 Ω  
Frequency DC to 40 GHz  
VSWR (Return Loss) ≤ 1.20 (≥ 20.83 dB)  
Insertion Loss ≤ 0.04 × √F (GHz) dB  
Insulation Resistance ≥ 5 GΩ  
Center contact resistance ≤ 3.0 mΩ  
Outer contact resistance ≤ 2.0 mΩ  
Test Voltage 750 V rms  
Working Voltage (at sea level) 250 V rms  
Power Handling ≤ 100 W @ 1 GHz

-VSWR in application depends decisive on PCB layout or cavity design-

### Material And Plating

| Piece Parts    | Material         | Plating   |
|----------------|------------------|---|
| Centre contact | Beryllium Copper | Gold plating<br>(Non-magnetic nickel-phosphorus underplating) |
| Body           | Stainless Steel  | Passivated  |
| Insulator      | PEI & PTFE       |   |
| Gasket         | Silicone Rubber  |   |
| Coupling nut   | Coupling nut     | Passivated  |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-  
Date:  
SEP/15/2025

Rosnol RF/Microwave Technology Co., Ltd.  
[www.rosnol.com](http://www.rosnol.com); [info@rosnol.com](mailto:info@rosnol.com)  
Phone: +886-3-463-5095 / Fax: +886-3-463-5952  
N-CAGE Code: SFKK0 / ISO9001 Certified

Page  
1/2

2.92mm Plug (Male) Connector Solder Attachment 4 Hole Flange Mount 0.3mm (.012")  
Coaxial Terminal, 8.64mm (.340") Hole Spacing DC-40GHz, VSWR 1.20

## K1GFA50-1830A / 9XX

### Mechanical Data

|                            |                        |
|----------------------------|------------------------|
| Coupling mechanisms        | Screw-lock             |
| Mating Cycles              | ≥ 500                  |
| Centre Contact             | Soldered               |
| Terminal Type              | Stub                   |
| Captivated Type            | Mechanical Captivation |
| Center contact captivation | ≥ 20 N                 |
| Coupling test torque       | 1.70 Nm                |
| Recommended torque         | 0.80 Nm to 1.10 Nm     |

### Environmental Data

|                     |                                      |
|---------------------|--------------------------------------|
| Temperature Range   | -65°C to +165°C                      |
| Thermal shock       | MIL-STD-202, Method 107, Condition B |
| Corrosion           | MIL-STD-202, Method 101, Condition B |
| Vibration           | MIL-STD-202, Method 204, Condition D |
| Shock               | MIL-STD-202, Method 213, Condition I |
| Moisture Resistance | MIL-STD-202, Method 106              |
| RoHS                | compliant                            |

### Packing

Single or 100