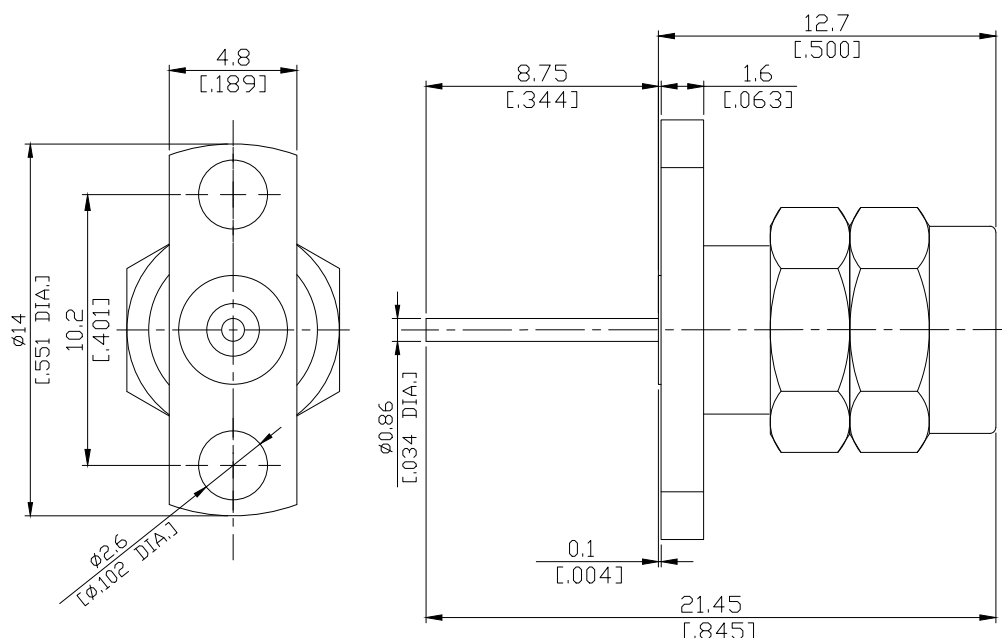


2.4mm plug (male) Connector Solder Attachment 2 Hole Flange Mount  
Stub Terminal, 10.2mm (.401 inch) Hole Spacing DC-50GHz VSWR1.15

# Q1GTA50-2145B / 9XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

## Interface

According to

IEC 61169-40

Mechanically compatible with

1.85mm

## Electrical Data

## Impedance

 $50\ \Omega$ 

Frequency

DC to 50 GHz

VSWR (Return Loss)

 $\leq 1.15$  ( $\geq 23$  dB)

### Insertion Loss

$$\leq 0.05 \times \sqrt{F \text{ (GHz)}} \text{ dB}$$

## Insulation Resistance

 $\geq 5 \text{ G}\Omega$ 

Test Voltage

500 V<sub>rms</sub>

Working Voltage (at sea level)

150 V<sub>rms</sub>

Power Handling (at 20 °C, sea level, VSWR 1.0)

 $\leq 100 \text{ W @ } 1 \text{ GHz}$ 

## Material And Plating

| Piece Parts    | Material         | Plating                                                                          |
|----------------|------------------|----------------------------------------------------------------------------------|
| Centre contact | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body           | Stainless Steel  | Passivated                                                                       |
| Insulator      | PEI/PTFE         |                                                                                  |
| Gasket         | Silicone Rubber  |                                                                                  |
| Coupling nut   | Stainless Steel  | 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.:-

Rosinol RF/Microwave Technology Co., Ltd.

[www.rosnol.com](http://www.rosnol.com); [info@rosnol.com](mailto:info@rosnol.com)

Date:

Phone: +886-3-463-5095 / Fax: +886-3-463-5952

JUL/16/2021

N-CAGE Code: SFKK0 / ISO9001 Certified

Page

 $1/2$

2.4mm plug (male) Connector Solder Attachment 2 Hole Flange Mount  
Stub Terminal, 10.2mm (.401 inch) Hole Spacing DC-50GHz VSWR1.15

## Q1GTA50-2145B / 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       | 1.65 Nm                |
| Recommended torque         | 0.80 Nm to 1.10 Nm     |

### Environmental Data

|                     |                               |
|---------------------|-------------------------------|
| Temperature Range   | -40°C to +85°C                |
| Thermal shock       | IEC 61169-1, Subclause 9.4.4  |
| Corrosion           | IEC 61169-1, Subclause 9.4.6  |
| Vibration           | IEC 61169-1, Subclause 9.3.3  |
| Shock               | IEC 61169-1, Subclause 9.3.14 |
| Moisture Resistance | IEC 61169-1, Subclause 9.4.3  |
| RoHS                | compliant                     |

### Packing

Single or 100