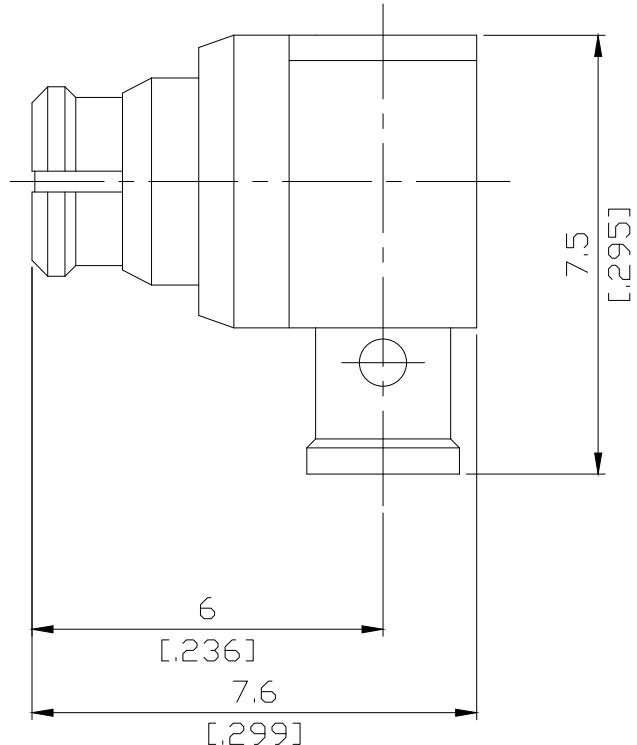


SMP Female Jack R/A To .047 SEMI-RIGID Cable DC to 40GHz

**SMP2E59-0047A / 91**

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to MIL-STD-348B/326

**Electrical Data**

|                           |                      |
|---------------------------|----------------------|
| Impedance                 | 50 Ω                 |
| Frequency                 | DC to 40 GHz         |
| VSWR (Return Loss)        | ≤ 1.3 (≥ 17.7 dB)    |
| Insertion Loss            | ≤ 0.12 x √F (GHz) dB |
| Insulation resistance     | ≥ 5 GΩ               |
| Center contact resistance | ≤ 6 mΩ               |
| Outer contact resistance  | ≤ 2 mΩ               |
| Test voltage              | 500 V rms            |
| Working voltage           | 335 V rms            |

**Material And Plating**

| Piece Parts    | Material         | Plating  |
|----------------|------------------|--|
| Centre contact | Beryllium Copper | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Body           | Brass            | Gold plating, 3 µinch<br>(Non-magnetic nickel-phosphorus underplating, 80 µinch) |
| Insulator      | PTFE             |  |

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:  
JUL/16/2021

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

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## SMP Female Jack R/A To .047 SEMI-RIGID Cable DC to 40GHz

**SMP2E59-0047A / 91****Mechanical Data**

|                            |                            |            |
|----------------------------|----------------------------|------------|
| Coupling mechanisms        | Snap-on                    |            |
| Mating Cycles              | Mating with Smooth Bore    | ≥ 1000     |
|                            | Mating with Limited Detent | ≥ 500      |
|                            | Mating with Full Detent    | ≥ 100      |
| Center contact captivation | ≥ 7 N                      |            |
| Engagement Force           | Smooth Bore                | 9 N max.   |
|                            | Limited Detent             | 45 N max.  |
|                            | Full Detent                | 68 N max.  |
| Disengagement force        | Smooth Bore                | 2.2 N min. |
|                            | Limited Detent             | 9 N min.   |
|                            | Full Detent                | 22 N min.  |

**Environmental Data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -65°C to +165°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Shock               | MIL-STD-202, Meth. 213, Cond. A |
| Moisture Resistance | MIL-STD-202, Method 106         |
| RoHS                | compliant                       |

**Packing**

Single or 100