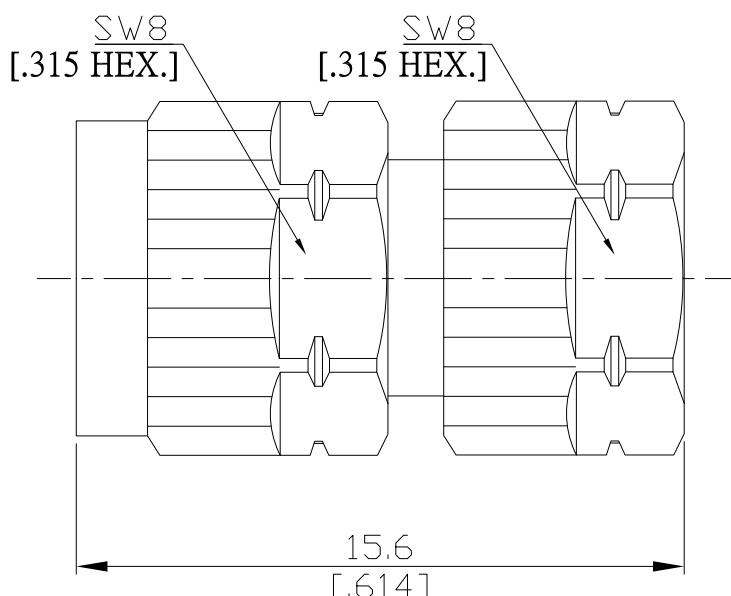




2.4mm Plug (Male) to 2.4mm Plug (Male) Fixed Attenuator  
DC-50GHz VSWR1.3

**FA-Q1Q15A-50G2W9 / 9XX-9XX**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

Mechanically compatible with

1.85mm

According to

IEC 61169-40, IEEE Std 287-2007

**Electrical Data**

Impedance

50  $\Omega$

Frequency

DC to 50 GHz

VSWR (Return Loss)

$\leq 1.30$  ( $\geq 17.7$  dB)

Insertion Loss

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

Insulation Resistance

$\geq 5$  G $\Omega$

Input Power

2 Watts average to 25°C

**Accuracy Of Attenuation & Power**

| ATTN.<br>(dB) | DEVIATION (dB) | AVG. *INPUT<br>POWER @ 25°C |
|---------------|----------------|-----------------------------|
|               | DC-50 GHz      |                             |
| 1             | ± 0.50dB       | 2.0 WATTS                   |
| 2             |                |                             |
| 3             | ± 0.30dB       |                             |
| 4             |                |                             |
| 5             |                |                             |
| 6             |                |                             |
| 7             | ± 0.50dB       |                             |
| 8             |                |                             |
| 9             |                |                             |
| 10            |                |                             |
| 20            | ± 0.70dB       |                             |
| 30            | ± 1.00dB       |                             |

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:  
10/7/2018

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N-CAGE Code: SFKK0 / ISO9001 Certified

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## 2.4mm Plug (Male) to 2.4mm Plug (Male) Fixed Attenuator DC-50GHz VSWR1.3

### FA-Q1Q15A-50G2W9 / 9XX-9XX

#### Material And Plating

| Piece Parts (2.4mm) | Material         | Plating                                                                                    |
|---------------------|------------------|--------------------------------------------------------------------------------------------|
| Centre Contact      | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body                | Stainless Steel  | Passivated                                                                                 |
| Insulator           | PEI              |                                                                                            |
| Gasket              | Silicone Rubber  |                                                                                            |
| Coupling Nut        | Stainless Steel  | Passivated                                                                                 |
| Piece Parts (2.4mm) | Material         | Plating                                                                                    |
| Centre Contact      | Beryllium Copper | Gold plating, 3 $\mu$ inch<br>(Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch) |
| Body                | Stainless Steel  | Passivated                                                                                 |
| Insulator           | PEI              |                                                                                            |
| Gasket              | Silicone Rubber  |                                                                                            |
| Coupling Nut        | Stainless Steel  | Passivated                                                                                 |

#### Mechanical Data

|                                   |              |
|-----------------------------------|--------------|
| Coupling mechanisms               | Screw-lock   |
| Mating Cycles                     | $\geq 500$   |
| Coupling Nut Retention            | N/A          |
| Center Contact Captivation: axial | $\geq 20$ N  |
| Weight                            | 0.0040 kg    |
| Coupling Test Torque              | 1.65 Nm max. |
| Recommended Torque                | 0.9 Nm       |

#### Environmental Data

|                     |                               |
|---------------------|-------------------------------|
| Temperature Range   | -55°C to +125°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