

# CA-NFSM

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Type N Female to SMA Male Adapter

## Product Classification

**Product Type** Adapter

## General Specifications

**Body Style** Straight

**Inner Contact Plating** Gold

**Interface** N Female

**Interface 2** SMA Male

**Mounting Angle** Straight

**Outer Contact Plating** Trimetal

**Pressurizable** No

## Dimensions

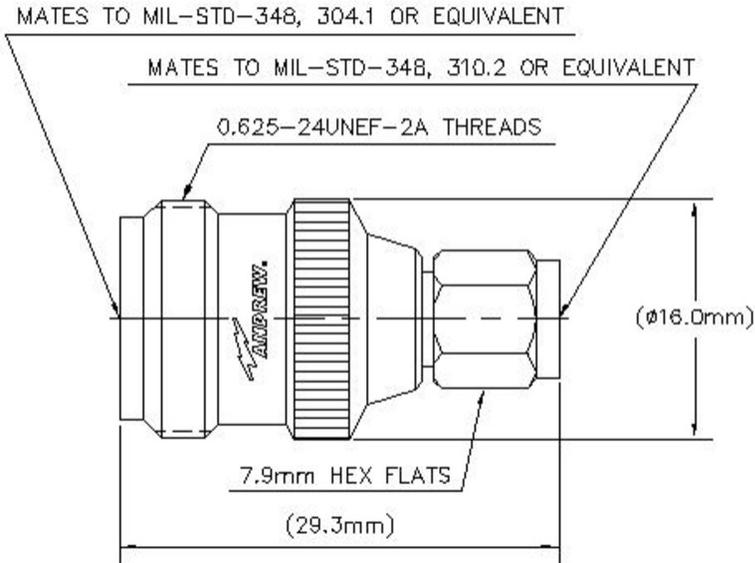
**Width** 16 mm | 0.63 in

**Length** 29.27 mm | 1.152 in

**Diameter** 16 mm | 0.63 in

## Outline Drawing

# CA-NFSM



## Electrical Specifications

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Average Power at Frequency</b>           | 100.0 W @ 900 MHz |
| <b>Connector Impedance</b>                  | 50 ohm            |
| <b>dc Test Voltage</b>                      | 1000 V            |
| <b>Inner Contact Resistance, maximum</b>    | 3 mOhm            |
| <b>Insulation Resistance, minimum</b>       | 5000 MOhm         |
| <b>Operating Frequency Band</b>             | 0 – 6000 MHz      |
| <b>Outer Contact Resistance, maximum</b>    | 2.5 mOhm          |
| <b>Peak Power, maximum</b>                  | 5 kW              |
| <b>RF Operating Voltage, maximum (vrms)</b> | 500 V             |

## VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 0-3000 MHz     | 1.041 | 33.95            |
| 3000-6000 MHz  | 1.083 | 28               |

## Mechanical Specifications

|                                         |                        |
|-----------------------------------------|------------------------|
| <b>Coupling Nut Proof Torque</b>        | 1.7 N-m   15.046 in lb |
| <b>Coupling Nut Proof Torque Method</b> | IEC 61169-15:9.3.6     |
| <b>Coupling Nut Retention Force</b>     | 180 N   40.466 lbf     |

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|                                            |                                     |
|--------------------------------------------|-------------------------------------|
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-15:9.3.11                 |
| <b>Insertion Force</b>                     | 28 N   6.295 lbf                    |
| <b>Insertion Force Method</b>              | IEC 61169-16:9.3.5                  |
| <b>Interface Durability</b>                | 500 cycles                          |
| <b>Interface Durability Method</b>         | IEC 61169-15:9.5   IEC 61169-16:9.5 |
| <b>Mechanical Shock Test Method</b>        | IEC 60068-2-27                      |

## Environmental Specifications

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| <b>Operating Temperature</b>                      | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F                         |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F                        |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F                       |
| <b>Climatic Sequence Test Method</b>              | IEC 60068-1                           |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Damp Heat Steady State Test Method</b>         | IEC 60068-2-3                         |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>                      | IEC 60068-2-6                         |

## Packaging and Weights

|                    |                   |
|--------------------|-------------------|
| <b>Weight, net</b> | 23.8 g   0.052 lb |
|--------------------|-------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------|
| CHINA-ROHS    | Below maximum concentration value                                                                                        |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system                                           |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant                                                                                                                |
| UK-ROHS       | Compliant                                                                                                                |

