

# CA-NFKF

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Type N Female to 4.1-9.5 DIN Female Adapter

## Product Classification

**Product Type** Adapter

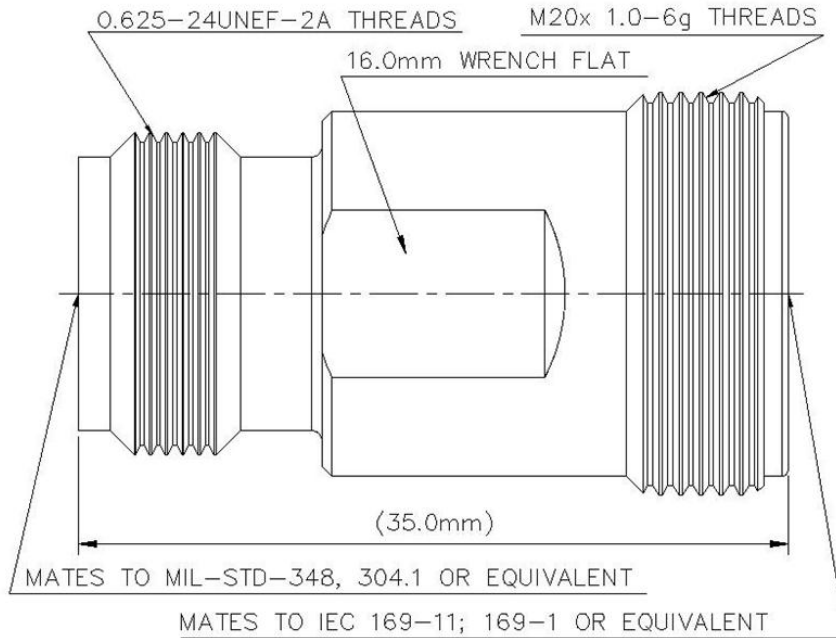
## General Specifications

**Interface** 4.1-9.5 DIN Female  
**Interface 2** N Female  
**Body Style** Straight  
**Mounting Angle** Straight

## Electrical Specifications

**Connector Impedance** 50 ohm  
**Operating Frequency Band** 0 – 6000 MHz  
**RF Operating Voltage, maximum (vrms)** 707.00 V  
**dc Test Voltage** 2500 V  
**Outer Contact Resistance, maximum** 0.40 mOhm  
**Inner Contact Resistance, maximum** 1.50 mOhm  
**Insulation Resistance, minimum** 5000 MOhm  
**Average Power** 600.0 W @ 900 MHz  
**Peak Power, maximum** 10.00 kW

## Outline Drawing



## Mechanical Specifications

|  |                                   |
|--|-----------------------------------|
| <b>Coupling Nut Proof Torque</b>           | 17.00 N-m   12.54 ft lb           |
| <b>Coupling Nut Proof Torque Method</b>    | IEC 61169-4:17                    |
| <b>Coupling Nut Retention Force</b>        | 550.00 N   123.64 lbf             |
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-4:15.2.6                |
| <b>Inner Contact Plating</b>               | Silver                            |
| <b>Insertion Force</b>                     | 27.00 N   6.07 lbf                |
| <b>Insertion Force Method</b>              | IEC 61169-16:9.3.5                |
| <b>Interface Durability</b>                | 500 cycles                        |
| <b>Interface Durability Method</b>         | IEC 61169-16:9.5   IEC 61169-4:17 |
| <b>Outer Contact Plating</b>               | Trimetal                          |
| <b>Pressurizable</b>                       | No                                |

## Dimensions

|                 |                    |
|-----------------|--------------------|
| <b>Diameter</b> | 19.88 mm   0.78 in |
| <b>Length</b>   | 35.00 mm   1.38 in |

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|               |                    |
|---------------|--------------------|
| <b>Weight</b> | 49.26 g   0.11 lb  |
| <b>Width</b>  | 19.88 mm   0.78 in |

## 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>Mechanical Shock Test Method</b>       | IEC 60068-2-27                        |
| <b>Climatic Sequence Test Method</b>      | IEC 60068-1                           |
| <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                         |
| <b>Corrosion Test Method</b>              | IEC 60068-2-11                        |

## Standard Conditions

|   |                 |
|---|-----------------|
| <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 |

## Return Loss/VSWR

| <b>Frequency Band</b> | <b>VSWR</b> | <b>Return Loss (dB)</b> |
|-----------------------|-------------|-------------------------|
| 0–3000 MHz            | 1.03        | 38.00                   |
| 3000–6000 MHz         | 1.08        | 28.00                   |

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014

### Classification

Compliant by Exemption  
Designed, manufactured and/or distributed under this quality management system  
Above Maximum Concentration Value (MCV)

