Product Specifications

COMMSCOPE®

on the go

CA-TNFDM

Type N Female to 7-16 DIN Male Adapter

General Specifications

Interface	N Female
Interface 2	7-16 DIN Male
Body Style	Straight
Mounting Angle	Straight

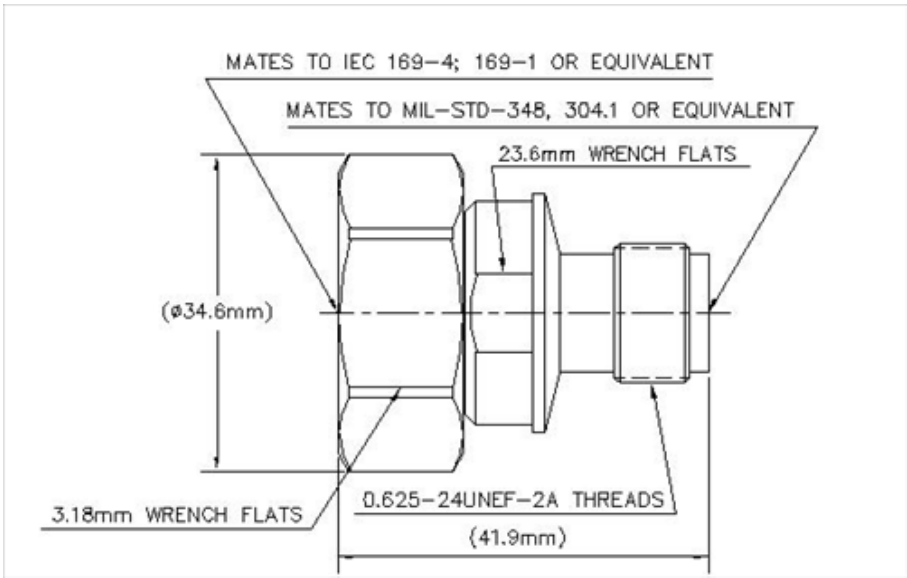
Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 6000 MHz
3rd Order IMD, typical	-123 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
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

Product Specifications

CA-TNFDM

Outline Drawing



Mechanical Specifications

Coupling Nut Proof Torque	50.00 N-m | 36.88 ft lb
Coupling Nut Proof Torque Method	IEC 61169-4:17
Coupling Nut Retention Force	800.00 N | 179.85 lbf
Coupling Nut Retention Force Method	IEC 61169-4:15.2.6
Inner Contact Plating	Silver
Insertion Force	200.00 N | 44.96 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5 | IEC 61169-4:17
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Diameter	22.35 mm | 0.88 in
Length	47.23 mm | 1.86 in
Weight	122.00 g | 0.27 lb
Width	22.35 mm | 0.88 in

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Mechanical Shock Test Method	IEC 60068-2-27
Climatic Sequence Test Method	IEC 60068-1
Damp Heat Steady State Test Method	IEC 60068-2-3

Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F
Average Power, Inner Conductor Temperature	100 °C | 212 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0–3000 MHz	1.03	35.79
3000–6000 MHz	1.12	24.94

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system