



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers Type N connectors (Plug and Jack, 50 and 75 Ohm). In the event of a discrepancy between this product specification and a specific sales drawing the sales drawing always takes precedence.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME

Type N

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 N/A

4.0 RATINGS

4.1 VOLTAGE

1000 Vrms

4.2 TEMPERATURE

Rating: - 55°C TO + 165°C

4.3 FREQUENCY RATING

DC to 11 GHz (50 Ohm)

DC to 6 GHz (75 Ohm)

4.4 NOMINAL IMPEDANCE

50 or 75 Ohms per sales drawing

REVISION: A	ECR/ECN INFORMATION: EC No: URF2009-0672 DATE: 2009 / 05 / 12	TITLE: N PLUG, JACK 50 AND 75 OHM	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-89675-322	CREATED / REVISED BY: JDW	CHECKED BY: SSS	APPROVED BY: JDW



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5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Insulation Resistance	MIL-PRF-39012, paragraph 3.11	5000 Megohms Min.
2	Dielectric Withstanding Voltage	MIL-PRF-39012, paragraph 3.17	1500 Vrms
3	RF High Potential Withstanding	MIL-PRF-39012, paragraph 3.23	1500 Vrms @ 5 MHz
4	Contact Resistance	MIL-PRF-39012, paragraph 3.16 Center Contact Outer Contact	1.50 Milliohms Max 0.20 Milliohms Max
5	Voltage Standing Wave Ratio	MIL-PRF-39012, paragraph 3.14	1.15 TYP
6	RF Leakage	MIL-PRF-39012, paragraph 3.26	> 128 dB up to 1 GHz
7	RF Insertion Loss	MIL-PRF-39012, paragraph 3.27	< .05 + .04 X \sqrt{f} (GHz) dB

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
8	Material	MIL-PRF-39012, paragraph 3.3	See Sales Drawing
9	Finish	MIL-PRF-39012, paragraph 3.3.1	See Sales Drawing
10	Design	MIL-PRF-39012, paragraph 3.4	See Sales Drawing
11	Recommended Mating Torque		6 in-lbs Maximum
12	Force to Engage	MIL-PRF-39012, paragraph 3.5, Axial Force	N/A
13	Force to Disengage	MIL-PRF-39012, paragraph 3.5, Axial Force	N/A
14	Coupling Proof Torque	MIL-PRF-39012, paragraph 3.6	15 in-lbs

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5.2 MECHANICAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
15	Coupling Nut Retention Force	MIL-PRF-39012, paragraph 3.25	100 lbs
16	Mating Characteristics	MIL-PRF-39012, paragraph 3.7 Insertion Force Withdrawal Force	2.0 lbs Max 2.0 oz Min
17	Connector Durability	MIL-PRF-39012, paragraph 3.15	500 Cycles Min
18	Center Contact Retention	MIL-PRF-39012, paragraph 3.12 Axial Force Radial Torque	6 lbs Min N/A

5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
19	Vibration	MIL-PRF-39012, paragraph 3.18 Per MIL-STD-202, Method 204	Test Condition B
20	Shock	MIL-PRF-39012, paragraph 3.19 Per MIL-STD-202, Method 213	Test Condition I
21	Shock (Thermal)	MIL-PRF-39012, paragraph 3.2 Per MIL-STD-202, Method 107	Test Condition B
22	Corrosion (Salt Spray)	MIL-PRF-39012, paragraph 3.13 Per MIL-STD-202, Method 101	Test Condition B
23	Moisture Resistance	MIL-PRF-39012, paragraph 3.21 Per MIL-STD-202, Method 106	DWV 1500 Vrms (after drying)

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