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For any questions, you can email us directly:

sales@integrated-circuit.com



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers 2.4mm Connectors

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME

2.4mm

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

MIL-STD-348

4.0 RATINGS

4.1 VOLTAGE

500 Vrms at Sea Level

4.2 TEMPERATURE

Rating: - 65°C TO + 165°C

4.3 FREQUENCY RATING

DC to 50 GHz

4.4 NOMINAL IMPEDANCE

50 Ohms

REVISION: A	ECR/ECN INFORMATION: EC No: URF2012-0140 DATE: 2011 / 09 / 13	TITLE: PS-89675-0410 2.4mm	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-89675-041	CREATED / REVISED BY: J. WIENER	CHECKED BY: S. SHAH	APPROVED BY: J. WIENER



PRODUCT SPECIFICATION

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Insulation Resistance	MIL-PRF-39012, paragraph 3.11	≥ 5000 Megohms
2	Dielectric Withstanding Voltage	MIL-PRF-39012, paragraph 3.17	500 Vrms
3	Contact Resistance	MIL-PRF-39012, paragraph 3.16 Center Contact Outer Contact	≤ 3 Milliohms ≤ 2 Milliohms
4	Voltage Standing Wave Ratio	MIL-PRF-39012, paragraph 3.14	DC-26.5 GHz: 1.10 Max 26.5-40 GHz: 1.15 Max 40-50 GHz: 1.20 Max
5	RF Leakage	MIL-PRF-39012, paragraph 3.26	≤ -100 dB
6	RF Insertion Loss	MIL-PRF-39012, paragraph 3.27	$0.03 \times \sqrt{f}$ (GHz) dB Max

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
7	Material	MIL-PRF-39012, paragraph 3.3	See Sales Drawing
8	Finish	MIL-PRF-39012, paragraph 3.3.1	See Sales Drawing
9	Design	MIL-PRF-39012, paragraph 3.4	See Sales Drawing
10	Panel Nut Torque	N/A	N/A
11	Recommended Mating Torque	MIL-PRF-39012	7-10 inch-pounds (steel part) 4-5 inch-pounds (brass part)
12	Force to Engage and Disengage	MIL-PRF-39012, paragraph 3.5.1 Axial Force Radial Force	N/A 2 in-lb MAX
13	Coupling Proof Torque	MIL-PRF-39012, paragraph 3.6	15 inch-pounds
14	Coupling Nut Retention Force	MIL-PRF-39012, paragraph 3.25	60 pounds

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PRODUCT SPECIFICATION

5.2 MECHANICAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
15	Mating Characteristics	MIL-PRF-39012, paragraph 3.7	N/A
16	Connector Durability	MIL-PRF-39012, paragraph 3.15	500 Cycles
17	Center Contact Retention	MIL-PRF-39012, paragraph 3.12 Axial Force Radial Torque	6.0 lbs (captivated designs) N/A
18	Cable Retention	MIL-PRF-39012, paragraph 3.24 Axial Force	Per Cable Specification
19	Hermetic Seal	MIL-PRF-39012, paragraph 3.9 Helium Tracer Gas	Per sales drawing

5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
20	Vibration	MIL-PRF-39012, paragraph 3.18 Per MIL-STD-202, Method 204	Test Condition D
21	Shock	MIL-PRF-39012, paragraph 3.19 Per MIL-STD-202, Method 213	Test Condition I
22	Shock (Thermal)	MIL-PRF-39012, paragraph 3.2 Per MIL-STD-202, Method 107	Test Condition B (165 °C)
23	Corrosion (Salt Spray)	MIL-PRF-39012, paragraph 3.13 Per MIL-STD-202, Method 101	Test Condition B
24	Moisture Resistance	MIL-PRF-39012, paragraph 3.21 Per MIL-STD-202, Method 106	DWV 500 Vrms (after drying)

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