



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers 1.0/2.3 Connectors

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME

1.0/2.3

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

CECC 22 230

4.0 RATINGS

4.1 VOLTAGE

250 Vrms at Sea Level

4.2 TEMPERATURE

Rating: - 55°C TO + 85°C

4.3 FREQUENCY RATING

50 OHM:

0 to 10.0 GHz (Maximum)

0 to 2.5 GHz (Recommended)

75 OHM

0 to 3 GHz

4.4 NOMINAL IMPEDANCE

50 or 75 Ohms (reference applicable sales drawing)

REVISION: A3	ECR/ECN INFORMATION: EC No: URF2010-0549 DATE: 2010 / 04/01	TITLE: PS-89675-3450 1.0/2.3 (50 and 75 OHMS)	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-89675-345	CREATED / REVISED BY: J. WIENER/J. WIENER	CHECKED BY: S. SHAH	APPROVED BY: J. WIENER



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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	≥ 1000 Megohms
2	Dielectric Withstanding Voltage	MIL-PRF-39012, paragraph 3.17	750 Vrms
3	Contact Resistance	MIL-PRF-39012, paragraph 3.16 Center Contact Initial Center Contact After Environment Outer Contact Outer Cable Conductor to Body	4 Milliohms N/A 2.5 Milliohms N/A
4	Voltage Standing Wave Ratio	MIL-PRF-39012, paragraph 3.14	50 OHM 1.05 Max to 1 GHz 1.15 Max to 4 GHz 1.38 Max to 10 GHz 75 Ohm 1.22 Max to 2 GHz
5	RF Leakage	MIL-PRF-39012, paragraph 3.26	-90 dB @ 500 MHz
6	RF Insertion Loss	MIL-PRF-39012, paragraph 3.27	$0.1 \times \sqrt{f}$ (GHz) dB

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	Recommended Mating Torque	N/A	N/A
11	Force to Engage and Disengage	MIL-PRF-39012, paragraph 3.5.1 Axial Force Radial Force	0.20 lbs MIN, to 2.25 lbs Max. (100 lbs MIN – Snap Lock Version Only) N/A
12	Coupling Proof Torque	MIL-PRF-39012, paragraph 3.6	N/A

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5.2 MECHANICAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
13	Mating Characteristics	MIL-PRF-39012, paragraph 3.7	N/A
14	Connector Durability	MIL-PRF-39012, paragraph 3.15	500 Cycles
15	Center Contact Retention	MIL-PRF-39012, paragraph 3.12 Axial Force Radial Torque	2.25 lbs N/A
16	Cable Retention	MIL-PRF-39012, paragraph 3.24 Axial Force	N/A
17	Hermetic Seal	MIL-PRF-39012, paragraph 3.9 Helium Tracer Gas	N/A

5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
18	Vibration	MIL-PRF-39012, paragraph 3.18 Per MIL-STD-202, Method 204	Test Condition A
19	Shock	MIL-PRF-39012, paragraph 3.19 Per MIL-STD-202, Method 213	N/A
20	Shock (Thermal)	MIL-PRF-39012, paragraph 3.2 Per MIL-STD-202, Method 107	Test Condition B (Except -55°C)
21	Corrosion (Salt Spray)	MIL-PRF-39012, paragraph 3.13 Per MIL-STD-202, Method 101	Test Condition B
22	Moisture Resistance	MIL-PRF-39012, paragraph 3.21 Per MIL-STD-202, Method 106	DWV 1000 Vrms (after drying)

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