PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers SSMCX Connectors.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME
SSMCX

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS
See applicable sales drawings

4.0 RATINGS

4.1 VOLTAGE
170 Vrms at Sea Level

4.2 TEMPERATURE
Rating: - 55°C TO + 155°C

4.3 FREQUENCY RATING
DC to 6.0 GHz

4.4 NOMINAL IMPEDANCE
50 or 75 Ohms (see sales drawing)

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	500 Vrms
3	**Contact Resistance**	MIL-PRF-39012, paragraph 3.16 Center Contact Outer Contact	 10 Milliohms Max 4 Milliohms Max
4	**Voltage Standing Wave Ratio**	MIL-PRF-39012, paragraph 3.14	50 Ohm: 0-1 GHz: 1.07 Max 1-3 GHz: 1.15 Max 3-6 GHz: 1.25 Max 75 Ohm: 0-1 GHz: 1.07 Max 1-3 GHz: 1.18 Max 1-6 GHz: 1.40 Max
5	**RF Leakage**	MIL-PRF-39012, paragraph 3.26	-70 dB @ 2.5 GHz
6	**RF Insertion Loss**	MIL-PRF-39012, paragraph 3.27	50 Ohm: 0.10 dB Max @ 1GHz 75 Ohm: 0.17 dB Max @ 1GHz

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
11	**Force to Engage and Disengage**	MIL-PRF-39012, paragraph 3.5.1 Axial Force Radial Force	 Engagement: 3.0 lbs Max Disengagement: 1.0 - 3.0 lbs N/A
12	**Coupling Proof Torque**	MIL-PRF-39012, paragraph 3.6	N/A

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	2.0 lbs (captivated designs) N/A
16	Cable Retention	MIL-PRF-39012, paragraph 3.24 Axial Force	Per Cable Specification
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 B
19	Shock	MIL-PRF-39012, paragraph 3.19 Per MIL-STD-202, Method 213	Test Condition B
20	Shock (Thermal)	MIL-PRF-39012, paragraph 3.2 Per MIL-STD-202, Method 107	Test Condition B
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 750 Vrms (after drying)