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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers SMPM Connectors.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME

SMPM

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

MIL-STD-348A

4.0 RATINGS

4.1 VOLTAGE

275 Vrms at Sea Level

85 Vrms at 70,000 Feet

4.2 TEMPERATURE

Rating: - 65°C TO + 165°C

4.3 FREQUENCY RATING

DC to 65 GHz

4.4 NOMINAL IMPEDANCE

50 Ohms

REVISION: B	ECR/ECN INFORMATION: EC No: URF2010-0166 DATE: 2013/09/19	TITLE: PS-89675-3730 SMPM	SHEET No. 1 of 4
DOCUMENT NUMBER: PS-89675-373	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	6.0 Milliohms Max 2 Milliohms Max
4	Voltage Standing Wave Ratio	MIL-PRF-39012, paragraph 3.14	1.10 DC to 23 GHz 1.15 23 GHz to 26 GHz 1.35 26 GHz to 50 GHz
5	RF Leakage	MIL-PRF-39012, paragraph 3.26	-65 dB @ 26.5 GHz
6	RF Insertion Loss	MIL-PRF-39012, paragraph 3.27	.10 db x \sqrt{f} (GHz) 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	Recommended Mating Torque		N/A
11	Force to Engage and Disengage	MIL-PRF-39012, paragraph 3.5.1 Axial Force	Full Detent Engage 4.5 lbs Typ Disengage 6.5 lbs Typ Smooth Bore Engage 2.5 lbs Typ Disengage 1.5 lbs Typ
12	Coupling Proof Torque	MIL-PRF-39012, paragraph 3.6	N/A

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PRODUCT SPECIFICATION

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	Full Detent 100 Cycles Smooth Bore 500 Cycles
15	Center Contact Retention	MIL-PRF-39012, paragraph 3.12 Axial Force Radial Torque	1.5 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 500 Vrms (after drying)

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PRODUCT SPECIFICATION

6.0 MISALIGNMENT

6.1 RADIAL MISALIGNMENT

Formula: $A = B \times \sin(z)$

A = Max radial misalignment

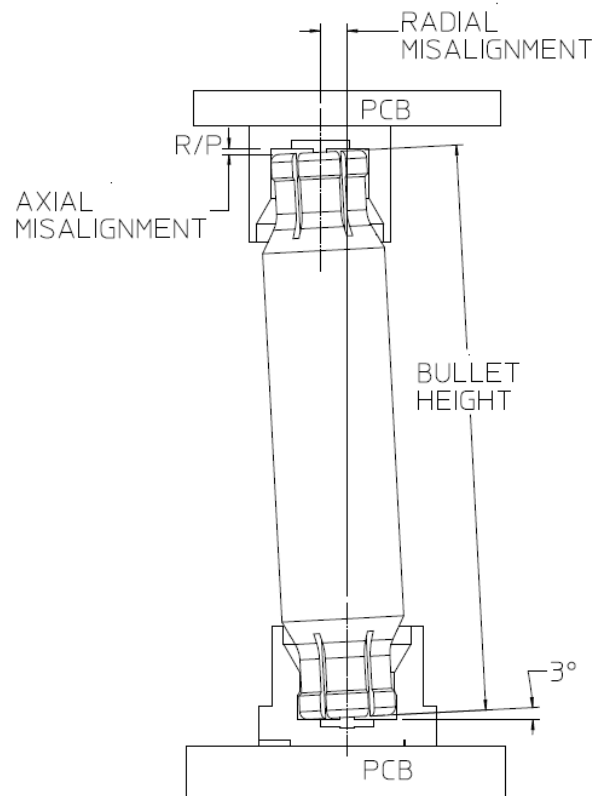
B = Height of the bullet $\leq 6.3\text{mm}$ (.248")

z = Max angle 3°

For bullet height $\geq 6.3\text{mm}$ (.248") max radial misalignment = 0.33mm (.013")

6.2 AXIAL MISALIGNMENT

Max misalignment 0.46mm (.018")



.500" length bullet shown

Diagram: SK3094

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