RCPT. ASS'Y, RIGHT ANGLE, CENTRONICS.

1. SCOPE

1.1. CONTENTS

This specification covers performance, tests and quality requirements for **RCPT. ASS'Y, RIGHT ANGLE, CENTRONICS** connector.

2. APPLICABLE DOCUMENT

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

Test Report: 501-57055

3. REQUIREMENTS

3.1. DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

3.2. MATERIALS

A. Housing: Thermoplastic, UL 94V-0, Color: Black.

B. Contact: Copper Alloy, Gold plating on contact area, Tin-lead or Tin plated on soldertails, Nickel underplated all over.

3.3. SOLDERTAILS, NICKEL UNDERPLATED ALL OVER.RATINGS

A. Temperature range: -55°C to +125°C

B. Current rating: 5 Amperes Max.

C. Humidity range: 25% to 85%.

3.4. PERFORMANCE AND TEST DESCRIPTION

The product is designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1.

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3.5. TEST REQUIREMENTS AND PROCEDURES SUMMARY

Figure 1

Test Item		Requirements	Procedure
1	Examination of Product	No Physical damage.	Visual.
Electrical Test			
2	Termination Resistance (Low Level)	Initial: 30 mΩ Max. Final: 40 mΩ Max.	20 mV, 100 mA Max. MIL-STD-1344A
3	Insulation Resistance	1000 MΩ Min.	500 V DC 2 minute Adjacent circuits of unmated connectors.
4	Dielectric Withstanding Voltage	No creeping discharge nor flash over.	1200 V ac 1 min. Current leakage :0.5 mA
Mechanical Test			
5	Connector Mating Force	Initial: 10.5 Kgf Max. Finial: 10.5 Kgf Max.	Operation speed: 25.4 mm/min.
6	Connector Unmating Force	Initial: 2.7 Kgf Min. Finial: 2.7 Kgf Min.	Operation speed: 25.4 mm/min.
7	Durability	T/R: 40 mΩ Max. See note (a).	Operation speed: 25.4 mm/min. Number of cycles: 500 cycles 20 mV, 100 mA Max.
Environmental Test			
8	Humidity	T/P: 40 mΩ Max. See note (a).	Mated connector. 40±2℃ 90~95%R.H.for 96 Hours.
9	Thermal Shock	T/P: 40 mΩ Max. See note (a).	Mated connector. -55℃ /30min., 85℃/30min. 5 cycles.
10	Salt Spray	T/P: 40 mΩ Max. See note (a).	Mated connectors. 5%, 35℃ for 6 hours

(a) Shall meet visual requirements, show no physical damage, and shall meet requirements of additional test as specified in the Test Sequence in Figure 2.

3.6. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE

Test or Examination		Test Group			
		1	2	3	4
		Test Sequence			
1	Examination of Product	1,9	1,7	1,6	1,3
2	Termination Resistance (Low Level)	2,6	3,6		
3	Insulation Resistance		2,5	2,5	
4	Dielectric Withstanding Voltage			3	
5	Connector Mating Force	3,7			
6	Connector Unmating Force	4,8			
7	Durability	5			
8	Humidity			4	
9	Thermal Shock		4		
10	Salt Spray				2
	Sample Quantity (Connector)	5	5	5	5

Figure 2(end)