# Stacked Ass'y 25Pos Rcpt Over 15 Pos Rcpt & 9 Pos Plug, D-Sub

## 1. SCOPE

This specification covers performance, tests and quality requirements for Stacked Ass'y , 25 Pos Rcpt Over 15 Pos Rcpt . & 9 Pos Plug , D-Sub .

## 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：501-57200

## 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 High Temperature ,UL94V-0.

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

### 3.3. RATINGS

A. Current Rating：2 A

B. Voltage Rating：250 VAC

C. Operating temperature：-55℃ to 105℃.

### 3.4. TEST CONDITION

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

### 3.5. TEST REQUIREMENTS AND PROCEDURES SUMMARY

| TEST DESCRIPTION | REQUIREMENT | PROCEDURED |
|---|---|---|
| Examination of product | Meets requirements of product drawing and AMP Specification. | Visual inspection<br>No physical damage |
| **ELECTRICAL** | | |
| Contact Resistance | 30mΩ Max. Initial<br>ΔR=10mΩ Max finial | 20mV, 100mA max.<br>EIA- 364-23A |
| Insulation Resistance | 1000MΩ Min. | Apply 500VDC for 2 minutes<br>EIA- 364-21B |
| Dielectric Withstanding Resistance | No creeping discharge or flashes occur. | 500V AC rms., for 1 minutes applied between adjacent contacts.<br>EIA-364-20A.method B. |
| **MECHANICAL** | | |
| Durability | Contact resistance ΔR=10mΩ<br>Max finial .See Note | 250cycles at maximum rate of 25mm per minute.<br>EIA-364-09B |
| Mating Force | 350g Max per Pin. | Mating connectors at maximum rate of 25mm Per minute.<br>EIA-364-13A |
| Unmating Force | 20g Min per Pin. | Mating connectors at maximum rate of 25mm Per minute.<br>EIA-364-13A |
| **ENVIRONMENTAL** | | |
| Humidity-Cycling Test | See Note<br>ΔR=10mΩ Max finial. | At a temperature of 40℃± 2℃ and relative Humidity of 90~95% for 96 hours.<br>EIA-364-31A, method III, condition B. |
| Salt Spray | See Note<br>No base metal exposed. | Exposing in a heat chamber at a temperature Of 35℃± 2℃ for 24 hours |
| Thermal Shock | See Note | 5 cycles between +85℃/30minute and -55℃/ 30 minute<br>EIA-364-32B,condition I |
| High Temperature Life | See Note<br>ΔR=10mΩ Max finial | Temperature 105±3℃ for 250 hours.<br>EIA-364-17A,method A, condition 3 |
| **PHYSICAL** | | |
| Solderability | 95% Min.<br>See Note | Temperature:245±5℃, 3±0.5sec.<br>EIA-364-52, class I. category 3. |
| Resistance to Soldering Heat | See Note | Specimen shall be mounted on PCB<br>260℃± 5℃, 10±1 sec.<br>EIA-364-56A |

Figure 1

NOTE: Shall meet visual requirements, show no physical damages.

### 3.5. PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE

| Test or Examination | Test Group | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| | Test Sequence (a) | | | | |
| Examination of Product | 1,11 | 1,8 | 1,5 | 1,5 | 1,4 |
| Contact Resistance | 3,6,8,10 | | 2,4 | 2,4 | |
| Insulation Resistance | | 2,6 | | | |
| Dielectric Withstanding Resistance | | 3,7 | | | |
| Durability | 4 | | | | |
| Mating Force | 2 | | | | |
| Unmating Force | 5 | | | | |
| Humidity-Cycling Test | 9 | 5 | | | |
| Thermal Shock | 7 | 4 | | | |
| Salt Spray | | | 3 | | |
| High Temperature Life | | | | 3 | |
| Solderability | | | | | 2 |
| Resistance to soldering heat | | | | | 3 |

Figure 2

NOTE :

(a) Numbers indicate sequence in which tests are performed.