

**RCPT. ASS'Y, RIGHT ANGLE, CENTRONICS.****1. INTRODUCTION****1.1. PURPOSE**

Testing was performed on RCPT. ASS'Y, RIGHT ANGLE CENTRONICS to determine its conformance to the requirements of AMP Product Specification 108-57098 Rev. O.

**1.2. SCOPE**

This report covers the electrical, mechanical and environmental performance of the RCPT. ASS'Y, RIGHT ANGLE CENTRONICS.

**1.3. CONCLUSION**

This RCPT. ASS'Y, RIGHT ANGLE CENTRONICS, meet the electrical, mechanical and environmental performance requirements of AMP Product Specification 108-57098 Rev. O.

**1.4. PRODUCT DESCRIPTION**

The RCPT. ASS'Y, RIGHT ANGLE CENTRONICS is applied at printed circuit board (PCB). The contacts are made from Copper Alloy with tin/lead plating over nickel under-plating all over the contact. The housing material is PBT, Black, UL94V-0.

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**2. SUMMARY OF TESTING****2.1. EXAMINATION OF PRODUCT --- ACCEPTABLE**

All samples submitted for testing were visually examined and no evidence of physical damage detrimental to product performance was observed.

**2.2. TERMINATION RESISTANCE --- ACCEPTABLE**

All termination resistance measurements were less than 30 milliohms initial and 40 milliohms after testing. (26.58 Milliohms MAX)

**2.3. INSULATION RESISTANCE --- ACCEPTABLE**

All insulation resistance measurements were greater than 1000 Mega-ohms.

**2.4. DIELECTRIC WITHSTANDING VOLTAGE --- ACCEPTABLE**

The dielectric withstanding voltage was tested at 1200V rms for 60 seconds. No dielectric breakdown or flashover occurred.

**2.5. MATING FORCE --- ACCEPTABLE**

All mating force measurements were less than 10.5Kgf.

**2.6. UNMATING FORCE --- ACCEPTABLE**

All unmating force measurements were over than 2.7Kgf.

Result:

	Before Durability		After Durability (500 Cycles)	
	Mating Force	Unmating force	Mating Force	Unmating force
440027	8.78 Max.	7.34 Min.	8.05 Max.	6.98 Min.

**2.7. DURABILITY --- ACCEPTABLE**

Meet visual requirements and show no physical damage occurred to the samples as a result of mating and unmating the connectors 500 cycles at a rate of 25.4mm per minute.

Result: Contact Resistance : 22.42 Milliohms Max. Mating and Unmating see above table.

**2.8. THERMAL SHOCK --- ACCEPTABLE**

No evidence of physical damage was visible as a result of exposure to 5 cycles of thermal shock.

**2.9. HUMIDITY TEST --- ACCEPTABLE**

No evidence of physical damage was visible as a result of exposure after 96 hours.

**2.10. SALT SPRAY --- ACCEPTABLE**

No evidence of physical damage was visible as a result of exposure to salt spray for 6 hours.

**3. TEST METHOD****3.1. EXAMINATION OF PRODUCT**

Where specified, samples were visually examined for evidence of physical damage detrimental to product performance.

**3.2. TERMINATION RESISTANCE**

Termination resistance is measured at 20 mV maximum open circuit voltage and 100mA DC maximum current for 5 seconds for any power and ground contact.

**3.3. INSULATION RESISTANCE**

Insulation resistance was measured between adjacent contacts of unmated samples. A test potential of 500 VDC was applied for 2 minute before the resistance was measured.

**3.4. DIELECTRIC WITHSTANDING VOLTAGE**

A test potential of 1200 VAC for 1 minute was applied between adjacent contacts of unmated samples.

**3.5. MATING FORCE**

The force required to mate individual connectors was measured with the rate of travel at 25.4 mm/minute.

**3.6. UNMATING FORCE**

The force required to mate individual connectors was measured with the rate of travel at 25.4 mm/minute.

**3.7. DURABILITY**

Connectors were mated and unmated 500 cycles at a rate of travel at 25.4

mm/minute

### **3.8. THERMAL SHOCK**

Mated samples were exposed to 5 cycles of thermal shock between -55°C/30min. and 85°C/30min.

### **3.9. HUMIDITY TEST**

Mated samples were exposed to between 40±2 °C at 90~95% humidity for 96 hours.

### **3.10. SALT SPRAY**

Mated samples were exposed to 5% solution 35°C for 6 hours.