



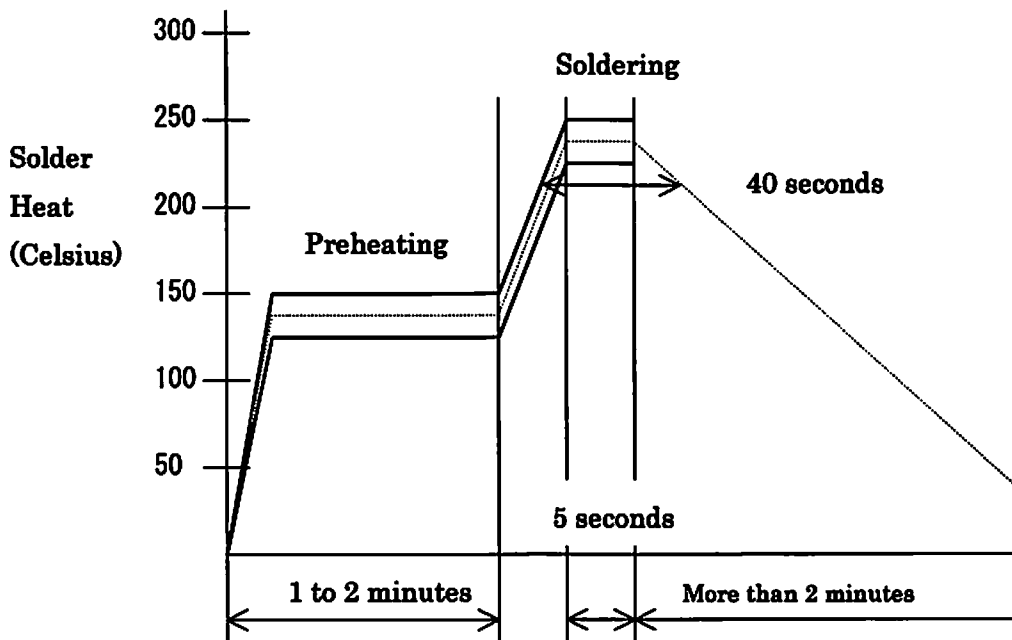


HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN		Date issued		Mar. 7, 2006																																		
Product Specification  RJ-45 Connector with screw lock RoHS compliant		Approved by	Checked by	Checked by	Written by																																	
		<i>H. Ebihara</i> H. Ebihara	<i>K. Ono</i> K. Ono	<i>M. Kasahara</i> M. Kasahara	<i>T. Oda</i> T. Oda																																	
Connector part No.		Feb. 08, 2010	T. Oda	RoHS information added																																		
		Oct. 09, 2008	Y. Arafune	Revised																																		
	Rev.	Date	By	Description																																		
<p>1. Connector part No. Board jack P/N: MOD-YSJ88D03C+ (Vertical through hole type board jack with stand off screw.) MOD-YSJ88YA03C+ (Right angle SMT type board jack with stand off screw.) (Note that RoHS information is on page 4/5 to board jack connector.) </p> <p>Cable plug P/N: MOD-YSP88P03+ (Cable plug with thumb screw.) (Note that RoHS information is on last page to cable plug connector.) </p>																																						
<p>2. Connector Configuration Connector dimensions, material and plating shall be in accordance with product drawings.</p>																																						
<p>3. Connector Specification</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Item</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Current Rating</td> <td>0.5 amp D.C. maximum per contact</td> </tr> <tr> <td>2</td> <td>Voltage Rating</td> <td>125volts A.C. (r.m.s.)</td> </tr> <tr> <td>3</td> <td>Operating Temperature</td> <td>-40 to +70 degrees C</td> </tr> <tr> <td>4</td> <td>Storage Temperature</td> <td>-55 to +85 degrees C</td> </tr> <tr> <td>5</td> <td>Humidity</td> <td>85%Rh maximum</td> </tr> <tr> <td>6</td> <td>Insulation Resistance</td> <td>When tested in accordance with method 302 of MIL-STD-202F, Test condition A, insulation resistance shall be a minimum of 100 MΩ at 100 volts D.C.</td> </tr> <tr> <td>7</td> <td>Dielectric Withstanding Voltage</td> <td>When tested in accordance with method 301 of MIL-STD-202F, there shall be no breakdown of insulation or flashover at 500 volts A.C. (r.m.s.) for a minute.</td> </tr> <tr> <td>8</td> <td>Contact Resistance</td> <td>When tested in accordance with method 3002.1 of MIL-STD-1344, contact resistance shall not exceed 40 mΩ without conductor resistance.</td> </tr> <tr> <td>9</td> <td>Durability</td> <td>When subjected to 2500 cycles of insertion and withdrawal cycles with mating cable plug at the rate of 600 cycles per hour, there shall be no evident physical damage to the connectors. After the test, the contact resistance shall not exceed 60 mΩ.</td> </tr> <tr> <td>10</td> <td>Vibration</td> <td>When tested in accordance with method 201A of MIL-STD-202F, Test condition A (Frequency: 10 Hz to 55Hz, Acceleration: 147 m/s<sup>2</sup> peak, Magnitude: 1.52 mm), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 60 mΩ.</td> </tr> </tbody> </table>						No.	Item	Specification	1	Current Rating	0.5 amp D.C. maximum per contact	2	Voltage Rating	125volts A.C. (r.m.s.)	3	Operating Temperature	-40 to +70 degrees C	4	Storage Temperature	-55 to +85 degrees C	5	Humidity	85%Rh maximum	6	Insulation Resistance	When tested in accordance with method 302 of MIL-STD-202F, Test condition A, insulation resistance shall be a minimum of 100 MΩ at 100 volts D.C.	7	Dielectric Withstanding Voltage	When tested in accordance with method 301 of MIL-STD-202F, there shall be no breakdown of insulation or flashover at 500 volts A.C. (r.m.s.) for a minute.	8	Contact Resistance	When tested in accordance with method 3002.1 of MIL-STD-1344, contact resistance shall not exceed 40 mΩ without conductor resistance.	9	Durability	When subjected to 2500 cycles of insertion and withdrawal cycles with mating cable plug at the rate of 600 cycles per hour, there shall be no evident physical damage to the connectors. After the test, the contact resistance shall not exceed 60 mΩ.	10	Vibration	When tested in accordance with method 201A of MIL-STD-202F, Test condition A (Frequency: 10 Hz to 55Hz, Acceleration: 147 m/s <sup>2</sup> peak, Magnitude: 1.52 mm), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 60 mΩ.
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No.	Item	Specification
11	Shock	<p>When tested in accordance with method 213B of MIL-STD-202F, Test condition A (Semi-sine wave, Acceleration: 490 m/s<sup>2</sup>, Standard holding time: 6 msec.), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 60 mΩ.</p>
12	Static Humidity	<p>When tested in accordance with method 103B of MIL-STD-202F, there shall be no physical damage to the connectors. After the test, the insulation resistance shall not be less than 100MΩ at 100V D.C. and there shall be no breakdown of insulation or flashover at 500V A.C. (r.m.s.) for a minute. The contact resistance shall not exceed 60mΩ.</p> <p style="text-align: center;">           Temperature: +40 degrees C            Humidity: 90% to 95%            Duration: 96 hours         </p>
13	Rapid change of temperature	<p>When tested in accordance with method 107G of MIL-STD-202F, Test condition A (5 cycles in the environment shown in below program), there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 60mΩ.</p> <div style="text-align: center;"> <p>The diagram illustrates a temperature cycle program. It starts at -55 degrees C, where it dwells for 30 minutes. Then, it ramps up to +25 degrees C over a 5-minute period. At +25 degrees C, it dwells for 30 minutes. Next, it ramps up to +85 degrees C over a 5-minute period. Finally, it dwells at +85 degrees C for 5 minutes. The entire sequence is labeled as '1 Cycle'.</p> </div>
14	Dry heat	<p>When tested in accordance with method 108A of MIL-STD-202F, there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 60 mΩ.</p> <p style="text-align: center;">           Temperature: +85 degrees C            Duration: 96 hours         </p>
15	Salt Spray	<p>When tested in accordance with method 101E of MIL-STD-202F, Test condition B, there shall be no any excessive corrosion on the every part of connectors. After the test, the contact resistance shall not exceed 60 mΩ.</p> <p style="text-align: center;">           Concentration: 5%            Temperature: +35 degrees C            Duration: 48hours         </p>
16	Resistance to SO <sub>2</sub> gas	<p>When tested in accordance with JIS H 8502 10.1, there shall be no any excessive corrosion on the every part of connectors. After the test, the contact resistance shall not exceed 60 mΩ.</p> <p style="text-align: center;">           SO<sub>2</sub> Concentration: 10 ppm            Duration: 96 hours            Temperature: +40 degrees C         </p>

No.	Item	Specification
17	Solderability	When board jack is tested in accordance with JIS C 60068-2-20, contact termination area should be at least 95% covered by continuous new solder coating. Solder temperature: 245 degrees C $\pm$ 5 degrees C Duration: 5 seconds
18	Solder Heat	When board jack is tested in accordance with JIS C 60068-2-20 to be placed onto PC Board, there shall be no damage.  Reflow soldering Solder temperature: 240 degrees C $\pm$ 5 degrees C Duration: 5 seconds

**Reflow temperature profile**



**Solder bath soldering**

Temperature of solder bath: 245 degrees C  $\pm$  3 degrees C  
 Duration: 5 seconds

**Solder iron soldering**

Temperature of solder iron: 370 degrees C  
 Duration: 5 seconds Max.

RoHS information to board jack connector

Names or Contents of Hazardous substances of equipment

Name of Part	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Insulator	○	○	○	○	○	○
Contact	○	○	○	○	○	○
Shell	○	○	○	○	○	○
Hexagon nut	○	○	○	○	○	○
Stand off screw	×	○	○	○	○	○

○ : Content of Hazardous substances of homogeneous materials of all applicable equipments does not exceed the limit, which is prescribed in the standard of the industry "The requirement of limit of Hazardous substances of Electronic Information Equipments".  
 × : Content of Hazardous substances of at least one homogeneous material of applicable equipments exceeds the limit, which is prescribed in the standard of the industry "The requirement of limit of Hazardous substances of Electronic Information Equipments".

Note : This equipment complies with RoHS ( EC directive ).  
 In above list, the content of hazardous substances of the equipments, which are exemptions of RoHS, is also described.

有毒有害物质或元素名称及含量标识

部件名称	有毒有害物质或元素					
	铅 (Pb)	水银 (Hg)	镉 (Cd)	6 价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
绝缘体	○	○	○	○	○	○
端子	○	○	○	○	○	○
金属贝壳	○	○	○	○	○	○
六角螺母	○	○	○	○	○	○
固定金属零件	×	○	○	○	○	○

○ : 表示该有毒有害物质在该部件所有均质材料中的含量均在《电子信息产品中有毒有害物质限度要求》标准规定的限量要求以下。  
 × : 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出《电子信息产品中有毒有害物质限度要求》标准规定的限量要求。



Names or Contents of Hazardous substances of equipment

Name of Part	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Insulator	○	○	○	○	○	○
Contact	○	○	○	○	○	○
Top shell	○	○	○	○	○	○
Bottom shell	○	○	○	○	○	○
Thumb screw	×	○	○	○	○	○

○ : Content of Hazardous substances of homogeneous materials of all applicable equipments does not exceed the limit, which is prescribed in the standard of the industry "The requirement of limit of Hazardous substances of Electronic Information Equipments".  
 × : Content of Hazardous substances of at least one homogeneous material of applicable equipments exceeds the limit, which is prescribed in the standard of the industry "The requirement of limit of Hazardous substances of Electronic Information Equipments".

Note: This equipment complies with RoHS ( EC directive ).  
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部件名称	有毒有害物质或元素					
	铅 (Pb)	水银 (Hg)	镉 (Cd)	6 价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
绝缘体	○	○	○	○	○	○
端子	○	○	○	○	○	○
表面金属贝壳	○	○	○	○	○	○
底部金属贝壳	○	○	○	○	○	○
螺丝金属零件	×	○	○	○	○	○

○ : 表示该有毒有害物质在该部件所有均质材料中的含量均在《电子信息产品中有毒有害物质限度要求》标准规定的限量要求以下。  
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