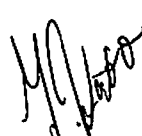

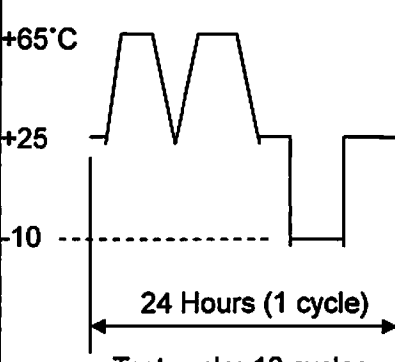
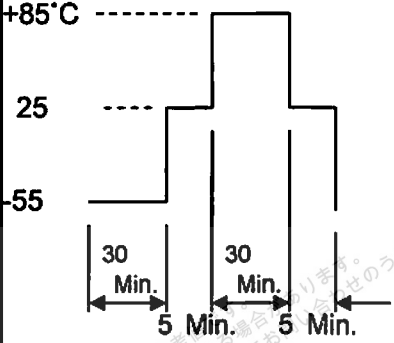


HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN		Sheet	1 of 4					
		Date	Jul 27, 2012					
PRODUCT SPECIFICATION SFP+ receptacle connector (0.8mm pitch right angle SMT)		Approved by	Checked by	Written by				
			—	M. Kasahara				
								
		LTR.	Date	By				
1. Connector part number		Rev. description						
		<table border="1"> <tr> <td>Connector part number</td> <td>Mating PCB thickness</td> </tr> <tr> <td>AKX-B20LFY</td> <td>1±0.1mm</td> </tr> </table>			Connector part number	Mating PCB thickness	AKX-B20LFY	1±0.1mm
Connector part number	Mating PCB thickness							
AKX-B20LFY	1±0.1mm							
2.Specification								
No.	Item	Specification						
1	Current Rating	0.5 Amp DC maximum per contact						
2	Voltage Rating	30 Volts AC (r.m.s.)						
3	Operating Temperature	-40°C ~ 85°C						
4	Storage Temperature	-40°C ~ 85°C						
5	Humidity	85%RH maximum						
6	Insulation Resistance	When tested in accordance with method 302 of MIL-STD-202F, insulation resistance shall be a minimum of 1000 MΩ at 250 volts DC. After humidity temperature cycling and thermal shock tests, it shall be a minimum of 100MΩ.						
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 300 volts AC (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 35mΩ including conductor resistance.						

No.	Item	Specification
9	Mating PCB Insertion and Withdrawal Force	<p>Mating PCB insertion and withdrawal force with connector shall satisfy following vales.</p> <p>Insertion Force: The force required to insert mating PCB into the connector shall not exceed 35N.</p> <p>Withdrawal Force: The force required to withdraw mating PCB from the connector shall not exceed 11.5N.</p>
10	Durability	<p>When tested in accordance with JIS C5402 6.3, there shall be no physical damage to the connector. After test, contact resistance shall not exceed 35mΩ and mating PCB insertion and withdrawal force shall satisfy the values in item #10.</p> <p>Test cycles: 100 cycles Mating speed: 400 ~ 600 cycles per hour</p>
11	Vibration	<p>When tested in accordance with method 204D of MIL-STD-202F, test condition B, there shall be no physical damage to the connector. During vibration, there shall be no discontinuity of test circuit greater than 1 microsecond. (100mA DC of current is applied to the circuit.) After test, contact resistance shall not exceed 35mΩ.</p> <p>Frequency: 10Hz ~ 500Hz Acceleration: 98m/s² peak</p>
12	Shock	<p>When tested in accordance with method 213B of MIL-STD-202F, test condition C, there shall be no physical damage to the connector. During test, there shall be no discontinuity of test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After test, contact resistance shall not exceed 35 mΩ.</p> <p>Acceleration: 490 m/s² Shock pulse: Half sine pulse of 11 milliseconds</p>
13	Humidity Temperature Cycling	<p>When tested in accordance with method 106E of MIL-STD-202F, there shall be no physical damage to the connector. After test, insulation resistance shall be no less than 100 MΩ and there shall be no breakdown of insulation or flashover at 300 volts AC (r.m.s) for a minute. Contact resistance shall not exceed 35mΩ as well.</p>  <p>The diagram shows a temperature profile for a 24-hour cycle. The temperature starts at +25°C, rises to +65°C, stays there for a period, then drops to +25°C, stays there for a period, then drops to -10°C, stays there for a period, and finally returns to +25°C. The total duration of one cycle is 24 hours. The test cycle is repeated 10 times.</p> <p>Test cycle: 10 cycles</p>

No.	Item	Specification
14	Thermal Shock	<p>When tested in accordance with method 107G of MIL-STD-202F, test condition A, there shall be no physical damage to the connector. After test, insulation resistance shall be no less than 100 MΩ and there shall be no breakdown of insulation or flashover at 300 volts AC (r.m.s) for a minute. Contact resistance shall not exceed 35mΩ as well.</p>  <p>Test cycle: 100 cycles</p>
15	High Temperature Life	<p>When tested in accordance with method 108A of MIL-STD-202F, there shall be no physical damage to the connector. After test, contact resistance shall not exceed 35mΩ. Temperature: +85°C Test time: 250 hours</p>
16	Cold Resistance	<p>When tested in accordance with JIS C 5402, 7.9, there shall be no physical damage to the connector. After test, contact resistance shall not exceed 35mΩ. Temperature: -55°C Test time: 96 hours</p>

No.	Item	Specification
17	Solderability	<p>When tested in accordance with method 208E of MIL-STD-202G, contact termination shall be 95% covered with new continuous solder coating.</p> <p>Solder temperature: $245 \pm 5^{\circ}\text{C}$ Test time: 5~10 seconds</p>
18	Resistance to Solder Heat	<p>When exposed to the following soldering condition per each category, there shall be no any excessive thermal damage on the every part of connector.</p> <p>Hand soldering: Soldering iron temperature: $350 \pm 10^{\circ}\text{C}$ Soldering time: 2~3 seconds</p> <p>Re-flow soldering: Peak temperature: $250 + 5^{\circ}\text{C}$ Soldering temperature: 230°C minimum for 30 ± 10 seconds Pre heating temperature: $150 \sim 180^{\circ}\text{C}$ for 90 ± 30 seconds</p> <p>The number of re-flow soldering is limited to two times.</p>

Temperature profile

