







HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN	Sheet	1 of 3		
	Date	May.26.2006		
PRODUCT SPECIFICATION 0.8 mm spacing 14 pos. and 26 pos. high density connector for board to board and board to cable. RoHS compliant	Approved by	Checked by	Written by	
	<i>K. Kasai</i> K. Kasai	<i>K. Takahashi</i> K. Takahashi	<i>H. Aizawa</i> H. Aizawa	
	 Feb. 12, 2009	H. Aizawa	Added part No.	K. Kasai
	LTR.	Date	By	Rev. description
				Appr.

Connector part No.

14 position


Type	Part No.	Note
Board side Female	HDR-EC14LFD(-)(-)+	Right angle dip type connector with locking post and board lock pin.
	HDR-EC14FD(-)(-)+	Straight dip type connector with locking post and board lock pin.
Cable side Male	HDR-E14MAG1+	IDC type connector Wire accommodation size: #30 AWG (7/0.1) O.D 0.5~0.58 Applicable cable cover: HDR screw and locking clip type cable cover
	HDR-E14FAG1+	
Cable cover 	HDR-E14()LP() HDR-E14()LP(+)	Shielded cover with shell.

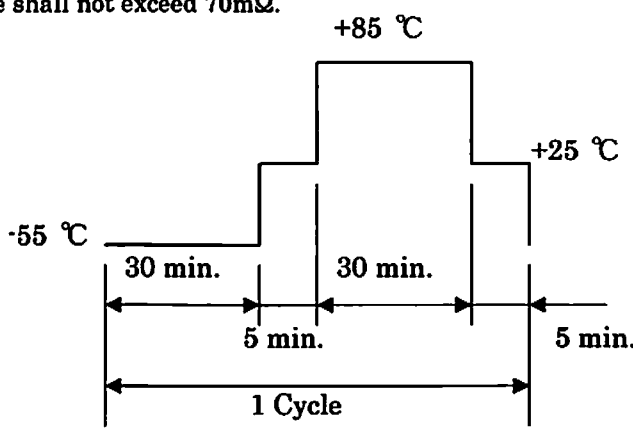
26 position

Type	Part No.	Note
Board side Female	HDR-EC26LFD(-)(-)+	Right angle dip type connector with locking post and board lock pin.
	HDR-EC26FD(-)(-)+	Straight dip type connector with locking post and board lock pin.
 Male	HDR-EC26LMD(-)(-)+	Right angle dip type connector with locking post and board lock pin.
Cable side Male	HDR-E26MAG1+	IDC type connector Wire accommodation size: #30 AWG (7/0.1) O.D 0.5~0.58 Applicable cable cover: HDR screw and locking clip type cable cover
	HDR-E26FAG1+	
 Male	HDR-E26MSG(+)	Soldering type connector Wire accommodation size: #28 AWG (7/0.127) max./ O.D 0.7 mm max. Applicable cable cover: HDR screw type cable cover and P/N: HDR-E26LPJ+ (locking clip type)
 Female	HDR-E26FSG(+)	
Cable cover 	HDR-E26()LP() HDR-E26()LP(+)	Shielded cover with shell.

Characteristics

No.	Item	Specification
1	Current rating	0.5 A DC maximum per contact.
2	Voltage rating	125 V AC (r.m.s.)
3	Operating temperature	-40 to 70 °C
4	Storage temperature	-40 to 65 °C
5	Humidity	85 % Rh maximum
6	Insulation resistance	When tested in accordance with MIL-STD-202F 302, the insulation resistance shall be a minimum of 1000 MΩ at 250 volts DC.
7	Dielectric withstanding voltage	When tested in accordance with MIL-STD-202F 301, there shall be no breakdown of insulation or flashover at 350 volts AC (r.m.s.) for a minute.
8	Contact resistance	Contact to contact When tested in accordance with MIL-STD-1344 3004, the contact resistance shall not exceed 70mΩ including the conductor resistance.

No.	Item	Specification									
9	Female contact insertion and pulling force (Individual)	<p>Insertion force The force required to insert the test gauge into any contact shall not exceed 2.45 N per contact.</p> <p>Pulling force The force required to pull the test gauge from any contact shall not be less than 0.294 N per contact.</p> 									
10	Connector insertion and withdrawal force (Overall)	<p>Insertion force The force required to insert a connector into the mating one shall not exceed the values in the below table.</p> <p>Withdrawal force The force required to withdraw a connector from the mating one shall not be less than the values in the below table. Unit: N</p> <table border="1" data-bbox="584 913 1412 1014"> <thead> <tr> <th>No. of pos.</th> <th>Insertion Force</th> <th>Withdrawal Force</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>24.5 max.</td> <td>2.0 min.</td> </tr> <tr> <td>26</td> <td>39.2 max.</td> <td>3.5 min.</td> </tr> </tbody> </table>	No. of pos.	Insertion Force	Withdrawal Force	14	24.5 max.	2.0 min.	26	39.2 max.	3.5 min.
No. of pos.	Insertion Force	Withdrawal Force									
14	24.5 max.	2.0 min.									
26	39.2 max.	3.5 min.									
11	Durability	When subjected to 5000 cycles of insertion and withdrawal forces with mating connector at the rate of 600 cycles per hours, there shall be no evidence damage to the connectors such as cracking. After test, "the contact to contact" resistance shall not exceed 70mΩ.									
12	Vibration	When tested in accordance with MIL-STD-202F 204D, there shall be no physical or mechanical damage to the connector. During vibration, there shall be no discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current applied for the circuit.)									
13	Physical shock	When tested in accordance with MIL-STD-202F 213B, there shall be no physical or mechanical damage to the connector. During the test, there shall be no discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current applied for the circuit.)									
14	Humidity temperature cycling	When tested in accordance with MIL-STD-202F 106E, after the test, the insulation resistance shall be no less than 500 MΩ, there shall be no breakdown of insulation or flashover at 350 volts AC (r.m.s.) for a minute and "the contact to contact" resistance shall not exceed 70mΩ.									

No.	Item	Specification
15	Thermal shock	<p>When subjected to 25 cycles in such environment as shown below program, there shall be no evidence of cracking or crazing of the body or other physical damage to the connector. After test, "the contact to contact" resistance shall not exceed 70mΩ.</p> 
16	High temperature life	<p>When tested in accordance with MIL-STD-1344 1005, there shall be no evidence of cracking or crazing of the body or other physical damage to the connector. After test, "the contact to contact" resistance shall not exceed 70mΩ.</p> <p>Temperature: +70 °C Test Time: 1000 hours</p>
17	Salt spray	<p>When tested in accordance with MIL-STD-202F 101D, Test condition A, there shall be no any excessive corrosion on the every part of connector. After test, "the contact to contact" resistance shall not exceed 70 mΩ.</p>
18	Resistance to SO ₂ gas	<p>When tested in accordance with JIS H 8502, as Sulfur dioxide environmental test method of connectors). Connectors are exposed in such environmental with SO₂ gas of 10±2 ppm.</p> <p>There shall be no any excessive corrosion on the every part of connector. After test, "the contact to contact" resistance shall not exceed 70 mΩ.</p> <p>Test Time : 100 hours</p>
19	Solvent resistance	<p>When tested in accordance with Method 215E of MIL-STD-202F, the connector shall be capable of being cleaned by ethyl alcohol.</p> <p>After test, there shall be no evidence of swelling, cracking, dissolving or any other defect.</p>
20	Solderability	<p>When connectors are assembled to printed circuit boards.</p> <p>Temperature :260±5 °C for 10 seconds.</p>
21	Solder heat	<p>Board connector</p> <p>When connectors are assembled to printed circuit boards with solder bath temperature : 260±5 °C for 10 seconds there shall be no damage to the connectors.</p> <p>⚠</p> <p>Cable connector (Soldering type: HDR-E26FSG1+, MSG1+)</p> <p>When connectors are assembled to cable with soldering iron temperature: 380±5°C for 5 seconds, there shall be no damage to the connectors</p>
22	Connector locking force	<p>When mated with mating connector with the cable cover, and they are locked in place, the minimum retention force shall be no less than 98 N.</p>