HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN	Sheet	1 of 3	
	Date	May.26.2006	
PRODUCT SPECIFICATION	Approved by	Checked by	Written by
0.8 mm spacing 14 pos. and 26 pos. high density connector for board to board and board to cable. RoHS compliant	K. Kasai	K. Takahashi	H. Aizawa

LTR.	Date	By	Rev. description	Appr.
1	Feb. 12, 2009	H. Aizawa	Added part No.	K. Kasai

Connector part No.

14 position

Type		Part No.	Note
Board side	Female	HDR-EC14LFDT( )-( )+	Right angle dip type connector with locking post and board lock pin.
		HDR-EC14FDT( )-( )+	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
	Female	HDR-E14FAG1+	
Cable cover 1		HDR-E14( )LP( ) HDR-E14( ) LP( )+	Shielded cover with shell.

26 position

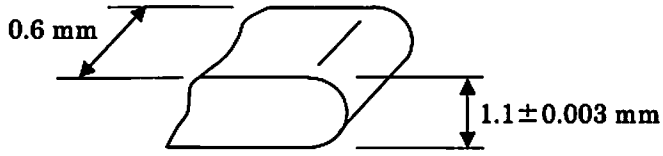
Type		Part No.	Note
Board side	Female	HDR-EC26LFDT( )-( )+	Right angle dip type connector with locking post and board lock pin.
		HDR-EC26FDT( )-( )+	Straight dip type connector with locking post and board lock pin.
1	Male	HDR-EC26LMDT( )-( )+	Right angle dip type connector with locking post and board 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
	Female	HDR-E26FAG1+	
1	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)
1	Female	HDR-E26FSG( )+	
Cable cover 1		HDR-E26( )LP( ) HDR-E26( ) LP( )+	Shielded cover with shell.

Characteristics

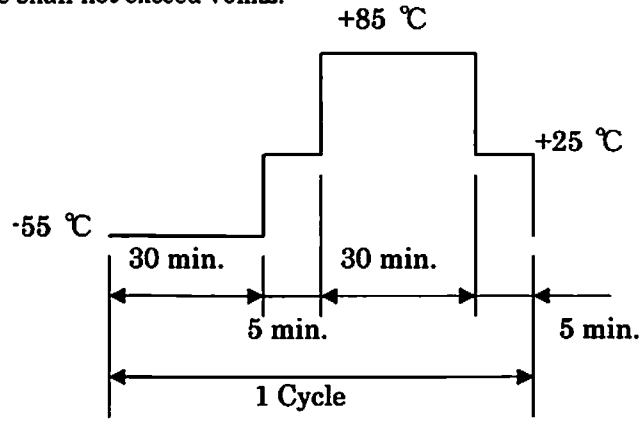
No.	Item	Specification
1	Current rating	0.5 A DC maximum per contact.
2	Voltage rating	125 V AC (r.m.s.)
3	Operating temperature	-40 to 70 ℃
4	Storage temperature	-40 to 65 ℃
5	Humidity	85 % Rh maximum
6	Insulation resistance	When tested in accordance with MIL-STD-202F 302, the insulation resistance 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.

<table>
<tr><th>No.</th><th>Item</th><th>Specification</th></tr>
<tr><td>9</td><td>Female contact insertion and pulling force (Individual)</td><td>Insertion force
The force required to insert the test gauge into any contact shall not exceed 2.45 N per contact.

Pulling force
The force required to pull the test gauge from any contact shall not be less than 0.294 N per contact.

 
</td></tr>
<tr><td>10</td><td>Connector insertion and withdrawal force (Overall)</td><td>Insertion force
The force required to insert a connector into the mating one shall not exceed the values in the below table.

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
<table>
<tr><th>No. of pos.</th><th>Insertion Force</th><th>Withdrawal Force</th></tr>
<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>
</table></td></tr>
<tr><td>11</td><td>Durability</td><td>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.</td></tr>
<tr><td>12</td><td>Vibration</td><td>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.)</td></tr>
<tr><td>13</td><td>Physical shock</td><td>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.)</td></tr>
<tr><td>14</td><td>Humidity temperature cycling</td><td>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.</td></tr>
</table>

No.	Item	Specification
15	Thermal shock	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. 
16	High temperature life	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. Temperature: +70 ℃ Test Time: 1000 hours
17	Salt spray	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.
18	Resistance to SO_2 gas	When tested in accordance with JIS H 8502, as Sulfur dioxide environmental test method of connectors). Connectors are exposed in such environmental with SO_2 gas of 10±2 ppm. 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. Test Time : 100 hours
19	Solvent resistance	When tested in accordance with Method 215E of MIL-STD-202F, the connector shall be capable of being cleaned by ethyl alcohol. After test, there shall be no evidence of swelling, cracking, dissolving or any other defect.
20	Solderability	When connectors are assembled to printed circuit boards. Temperature :260±5 ℃ for 10 seconds.
21	Solder heat	Board connector When connectors are assembled to printed circuit boards with solder bath temperature : 260±5 ℃ for 10 seconds there shall be no damage to the connectors. △1 Cable connector (Soldering type: HDR-E26FSG1+, MSG1+) When connectors are assembled to cable with soldering iron temperature: 380±5℃ for 5 seconds, there shall be no damage to the connectors
22	Connector locking force	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.