


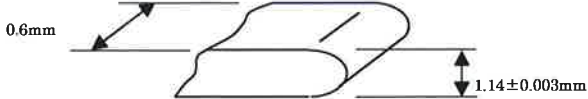
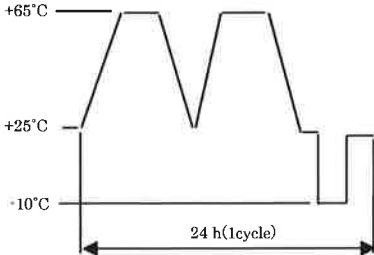
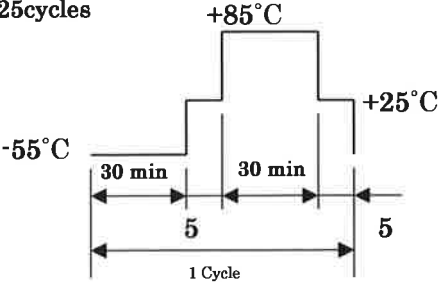


HONDA TSUSHIN KOGYO CO., LTD. Tokyo Japan		Sheet	1 of 4		
		Date	Mar.- 22, 2019		
Product Specification 0.8mm Spacing High Density 68 pos. SMT Connector <div style="border: 1px solid black; padding: 2px; display: inline-block;">RoHS compliant</div>		Approved by	Checked by	Written by	
		 Y. Kato	 S. Yoshida	 T. Masuno	
		Rev.No.	Date	By	Rev. description
		△1			
Connector part number					
Connector type		Part number		Note	
Single stack right angle connector		HDRA-EC68LFD()-(-)+		VHDCI 68 Pos. right angle through hole connector with locking post and hold-down	
Mating cable connector		HDRA-E68M()-1+		IDC type cable connector Wire size available: #30 to #34 AWG Applicable insulation O.D: 0.5~0.58 mm	
Applicable cable connector backshell		HDRA-E68LGKP ()		Shielded over molded backshell with thumb screws	
Characteristics					
No.	Item	Specification			
1	Current Rating	0.3 amp DC maximum per contact			
2	Voltage Rating	30 volts AC (r.m.s.)			
3	Operating Temperature	-40°C to 70°C			
4	Storage Temperature	-40°C to 70°C			
5	Humidity	95%RH maximum			
6	Insulation Resistance	When tested in accordance with EIA 364-21, the insulation resistance shall be a minimum of 500 MΩ at 100 volts DC.			
7	Dielectric Withstanding Voltage	When tested in accordance with Method B of EIA 364-20, there shall be no breakdown of insulation or flashover at 250 volts AC (r.m.s.) for a minute.			
8	Contact Resistance	When tested in accordance with EIA 364-23, the contact resistance shall not exceed 70 mΩ including the conductor resistance.			

No.	Item	Specification
9	Female Contact Insertion and Pulling Force (Individual)	<p>When tested in accordance with EIA 364-13, female contact insertion force and pulling force shall satisfy followings.</p> <ul style="list-style-type: none"> ○Insertion Force The force required to insert the test gauge into any contact shall not exceed 1.47 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. 
10	Connector Insertion and Withdrawal Force (Overall)	<ul style="list-style-type: none"> ○Insertion Force The force required to insert a connector into the mating one shall not exceed 54.8 N. ○Withdrawal Force The force required to withdraw a connector from the mating one shall not be less than 14.7 N.
11	Durability	<p>When subjected to 5000 cycles of insertion and withdrawal with mating connector at the rate of 500 cycles per hour, there shall be no evidence damage to the connector such as cracking. After test, the contact resistance shall not exceed 90mΩ.</p>
12	Vibration	<p>When tested in accordance with EIA 364-28, 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.)</p> <p>Frequency range: 10 Hz to 500 Hz at 10 G Test direction: Three axes Test time: 15 minutes for each axis(Total 9 hours) Test cycles:12 cycles for each axis(Total 36 cycles)</p>
13	Physical Shock	<p>When tested in accordance with test condition H of EIA 364-27, 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.)</p> <p>Acceleration: 30 G peak Test direction: Three axes Test cycles: 3 cycles for each axis (Total 3 cycles)</p>
14	Humidity Temperature Cycling (Except Cable Connector Backshell)	<p>Connectors are tested in accordance with method 3, test condition B of EIA 364-31. After the test, the insulation resistance shall be no less than 500 MΩ, there shall be no breakdown of insulation or flashover at 250 volts AC (r.m.s.) for a minute and the contact resistance shall not exceed 90mΩ.</p>  <p>Test cycle:10 cycles</p>

No.	Item	Specification
15	Thermal Shock (Except Cable Connector Backshell)	<p>When tested in accordance with test condition 1 of EIA 364-32, there shall be no evidence of cracking or crazing of the body or other physical damage to the connector. After test, the contact resistance shall not exceed 90 mΩ.</p> <p>Test cycle:25cycles</p> 
16	High Temperature Life (Except Cable Connector Backshell)	<p>When tested in accordance with test condition 3 of EIA364-17, there shall be no evidence of cracking or crazing of the body or other physical damage to the connector. After test, the contact resistance shall not exceed 90 mΩ.</p> <p>Temperature: +85°C Test Time: 500 hours</p>
17	Salt Spray	<p>When tested in accordance with test condition A of EIA 364-26, there shall be no any excessive corrosion on the every part of connector. After test, the contact resistance shall not exceed 90 mΩ.</p> <p>Salt spray concentration: 5 % Temperature: + 35°C Test time: 48 hours</p>
18	Mix flowing Gas	<p>When tested in accordance with environment class 3 of EIA 364-65, there shall be no any excessive corrosion on the every part of connector. After test, the contact resistance shall not exceed 90 mΩ.</p> <p>Concentration: Cl₂ gas: 20±5 ppb NO₂ gas: 200±50ppb H₂ S gas: 100±20ppb</p> <p>Temperature: 30±2°C Relative humidity: 70±2% Test Time: 20 days</p>

No.	Item	Specification
19	Solvent Resistance (Except Cable Connector Backshell)	When tested in accordance with method 215E of MIL-STD-202F, the connector shall be capable of being cleaned by isopropyl alcohol. After test, there shall be no evidence of swelling, cracking, dissolving or any other defect.
20	Solderability	When SMT board connectors are assembled to printed circuit board, contact termination area must be soldered to the pad in PC Board at a temperature of $250 \pm 3^{\circ}\text{C}$ for 3 seconds.
21	Solder Heat	When SMT board connectors are exposed in such environment at a maximum temperature of $240\sim 250^{\circ}\text{C}$ for 3~5 seconds, there shall be no damage to the connectors.

掲載している製品の特性及び仕様は参考値です。
 特性及び仕様については、予告無く変更する場合があります。
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 納入仕様書の取り交わしをお願いします。

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 Contact our sales staff for further information before considering or
 ordering any of our products.
 Please request Engineering Drawing for the most current and accurate
 design information.

HTK