

HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN	SHEET	1 OF 4		
	DATE	Mar, 31, 2004		

PRODUCT SPECIFICATION 1. 27mm SPACING BOARD TO BOARD CONNECTOR	APPROVED BY	CHECKED BY	CHECKED BY	WRITTEN BY
	<i>S. Furusawa</i>	---	<i>K. Hamano</i>	<i>T. Kawano</i>

CONNECTOR PART NO.

MALE TYPE P/N: PCS- () MD ()†, LMD ()†
 FEMALE TYPE P/N: PCS- () FD ()†, LFD ()†

CHARACTERISTICS

Item	Conditions and Specifications
1 Current rating	1A
2 Voltage rating	AC 250 V (r. m s.)
3 Operating temperature	-55°C ~ 105°C
4 Storage temperature	-55°C ~ 105°C
5 Humidity	85 % Rh maximum
6 Insulation resistance	Conform to MIL-STD-1344, method 3003. The insulation resistance shall be a minimum of 100MΩ at 500V DC.
7 Dielectric withstanding voltage	Conform to MIL-STD-1344, method 3001. There shall be no breakdown of insulation or flashover at 750V AC (r. m s) for a minute
8 Contact resistance	Conform to JIS C 5402, method 5. 4. The contact resistance shall not exceed 35mΩ including the conductor resistance.

9 Female contact insertion and pulling force (Individual)	<p>Using steel gauge. (Fig-1)</p> <p>①Insertion Force: 1. 47N (150g) maximum .</p> <p>②Pulling Force : 0. 29N (30g) minimum .</p> <div style="text-align: center;"> <p>Fig.-1</p> </div>
---	--

Item	Conditions and Specifications				
10 Connector insertion and withdrawal force (Overall)	No of contact	34	48	68	96
	Insertion force (Max.)	29.4 N (3 kgf)	39.2 N (4 kgf)	53.9 N (5.5 kgf)	68.6 N (7 kgf)
	Withdrawal force (Min.)	9.8 N (1 kgf)	14.7 N (1.5 kgf)	19.6 N (2 kgf)	29.4 N (3 kgf)
	No of contact	128	150	240	
	Insertion force (MAX.)	93.2 N (9.5 kgf)	107.9 N (11 kgf)	173.6 N (17.7kgf)	
	Withdrawal force (MIN.)	37.3 N (3.8 kgf)	44.1 N (4.5 kgf)	70.6 N (7.2 kgf)	
11 Humidity	<p>Conform to MIL-STD-1344, method 1002, type I condition A ($40\pm 2^{\circ}\text{C}$, 90 to 95%Rh, 96hours)</p> <p>①Insulation resistance The insulation resistance shall be a minimum of $100\text{M}\Omega$ at 500V DC.</p> <p>②Dielectric withstanding voltage There shall be no breakdown of insulation or flashover at 750V AC(r.m.s) for a minute</p> <p>③Contact Resistance The contact resistance shall not exceed $35\text{m}\Omega$ including the conductor resistance.</p>				
12 Thermal shock	<p>Conform to MIL-STD-1344, method 1003. ($-55 \sim 105^{\circ}\text{C}$, 10cycle)</p> <p>①Appearance There shall be no evidence of cracking or crazing of the body or other physical damage to the connector.</p> <p>②Contact Resistance The contact resistance shall not exceed $35\text{m}\Omega$ including the conductor resistance.</p>				
13 Vibration	<p>Conform to MIL-STD-1344, method 2005, condition II.</p> <p>Frequency: 10 to 500 Hz. Electrical load: 100 mA D. C. Acceleration peak: 10 G Double amplitude : 1.52mm 3hours x, y, z directions each.</p> <p>①Appearance There shall be no physical or mechanical damage to the connector.</p> <p>②Contact chattering There shall be no discontinuity of the test circuit greater than $1\mu\text{sec}$ during vibration.</p>				

	Item	Conditions and Specifications
14	Shock	<p>Conform to MIL-STD-1344, method 2004, condition E Acceleration peak:50 G Electrical load:100 mA D. C. 4 times, x, y, z. directions each.</p> <p>①Appearance There shall be no physical or mechanical damage to the connector.</p> <p>②Contact chattering There shall be no discontinuity of test circuit greater than 1μsec during the test.</p> <p>③Contact Resistance The contact resistance shall not exceed 35mΩ including the conductor resistance</p>
15	Durability	<p>After 500 times of insertion and withdrawing, the contact resistance shall not exceed 35mΩ including the conductor resistance.</p>
16	Corrosion (Salt spray)	<p>Conform to MIL-STD-1344, method 1001. (5 % solution , 48hours.)</p> <p>①Appearance There shall be no any excessive corrosion on the every part of connector.</p> <p>②Contact Resistance The contact resistance shall not exceed 35mΩ including the conductor resistance.</p>
17	Mixed Flowing Gass (H ₂ S)	<p>Conform to JEIDA-25 JIS H 8502 (H₂S:3±1ppm , 40°C , 500hours.)</p> <p>①Appearance There shall be no any excessive corrosion on the every part of connector.</p> <p>②Contact Resistance The contact resistance shall not exceed 35mΩ including the conductor resistance.</p>
18	High temperature life	<p>Conform to MIL-STD-1344, method 1005. (85°C , 1000 hours)</p> <p>①Appearance There shall be no evidence of cracking or crazing of the body or other physical damage to the connector.</p> <p>②Contact Resistance The contact resistance shall not exceed 35mΩ including the conductor resistance.</p>

	Item	Conditions and Specifications
19	Resistance to solvents	Conform to MIL-STD-202E, methd 215. When the connecor cleaned by Ethyl-Alcohol , the insulator shall be no change color or no dissolve. .
20	Solder ability	Conform to MIL-STD-202E, methd 208. (245±5°C , 5sec.) ①Appearance The termination is 95% coverd by a continuous new solder coating. ②There are no solderite on the contact area.
21	Resistance to soldering heat.	Conform to MIL-STD-202E, method 210 condition C (260±5°C , 10 sec.) ①Appearance There shall be no breakage or crack which can be detrimental for use. ②There shall be no lossing of the contact.
22	Temperature rise	Shall apply 1A of current for all contacts throughout the test, temperature rise shall be below 30 °C .



HONDA TSUSHIN KOGYO CO., LTD.
 The product information in this data is for reference only.
 This is subject to change without notice.
 Contact our sales staff for further information before consulting our
 Please request the Engineering Drawing for the most current and
 design information.