HONDA TSUSHIN KOGYO CO., LTD.  Tokyo Japan  Date  Sep. 12. 2007  Approved by  Checked by  Written by  Product Specification  LPC Series Connector ( RoHS )  [2mm Spacing Connector]  Connector part number  Connector type  Part number  Note  LPC - B ( ) M2G ( )  LPC - B ( ) M2LG ( )  LPC - B ( ) FAG ( )  LPC - B ( ) RFAG ( )  Characteristics
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Female connector  LPC - B ( ) RFAG ( )
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Characteristics
No. Item Specification
1 Current Rating 1.5 amp AC maximum per contact
2 Voltage Rating 150 volts AC (r.m.s.)
3 Operating Temperature -25 ℃ to 85 ℃
4 Humidity 90%RH maximum
When tested in accordance with method B of MIL-STD-202F 302,
5 Insulation Resistance the insulation resistance shall be a minimum of 1000 MΩ
at 500 volts DC.
When tested in accordance with MIL-STD-202F 301,
6 Withstanding Voltage there shall be no breakdown of insulation or flashover
at 750 volts AC (r.m.s.) for a minute.
When tested in accordance with MIL-STD-1344 3002.1,
contact resistance shall not exceed following values including
the conductor resistance.  7 Contact Resistance
Initial: 20 mΩ
After test : $30 \text{ m}\Omega$

No.	Item	Specification
8	Female Contact Insertion and Pulling Force (Individual)	When tested in accordance with MIL-STD-1344 2014,  female contact insertion force and pulling force shall satisfy followings.  Insertion Force  The force required to insert the test gauge into any contact shall not exceed following values.  2.94 N per contact  Pulling Force  The force required to pull the test gauge from any contact shall not be less than following values.  0.294 N per contact
9	Connector Insertion and Withdrawal Force (Overall)	When tested in accordance with MIL-STD-1344 2013.1, connector insertion force and withdrawal force shall satisfy followings.  Insertion Force The force required to insert a connector into the mating one shall not exceed 2.94 × (n) N.  Withdrawal Force The force required to withdraw a connector from the mating one shall not be less than 0.294 × (n) N.  "" n " shows number of contact
10	Vibration	When tested in accordance with MIL-STD-202 201, 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.) After the test, there shall be no breakdown of insulation or flashover at 500 volts AC(r.m.s.) for a minute.  Frequency range: 10 Hz to 500 Hz at 98 m/s² Test direction: 3 axes(X, Y and Z) Test time: 2 hours for each axis

No.	Item	Specification
11	Physical Shock	When tested in accordance with method C of MIL-STD-202 107, 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.)  After the test, there shall be no breakdown of insulation or flashover at 500 volts AC(r.m.s.) for a minute.  Acceleration: 490 m/s² peak  Test direction: 6 axes(±X, ±Y and ±Z)  Test cycles: 3 cycles for each axis (Total 18 cycles)
12	Durability	When tested in accordance with MIL-STD-1344 2016, there shall be no physical or mechanical damage to the connector.  After test, contact resistance shall satisfy values as stated in item #7, female contact insertion and pulling force shall satisfy values as stated in item #8.  Test cycles: 50 cycles
13	Thermal Shock	When tested in accordance with method A of MIL-STD-202 107, there shall be no physical or mechanical damage to the connector.  After test, contact resistance shall satisfy values as stated in item #7, there shall be no breakdown of insulation or flashover at 500 volts AC (r.m.s.) for a minute.  Test cycles: 5 cycles  +85°C  -25°C  30 min 5 min 1 Cycle

No.	Item	Specification
	-	When tested in accordance with method B of MIL-STD-202 103,
		there shall be no physical or mechanical damage to the connector.
		After the test, the insulation resistance shall be no less than 1000 M $\Omega$ ,
		there shall be no breakdown of insulation or flashover at 750 volts AC
		(r.m.s.) for a minute and contact resistance shall satisfy values as stated
14	Humidity	in item #7.
) -		Humidity: 90~95 %
		Temperature: 40 ±2 ℃
		Test time: 96 hours
		When tested in accordance with method B of MIL-STD-202 101,
15		there shall be no any excessive corrosion on the every part of
		connector.
		After test, contact resistance shall satisfy values as stated in item #7.
	Salt Spray	
		Salt spray concentration: 5±1 %
		Temperature: 35 °C
		Test time: 96 hours
		When tested in accordance with JIS C 0092,
		there shall be no any excessive corrosion on the every part of
		connector.
		After test, contact resistance shall satisfy values as stated in item #7.
16	H₂S Gas	H₂S gas concentration: 3 ppm
		Temperature: 40 ℃
		Test Time: 48 hours

No.	Item	Specification
17	High Temperature Life	When tested in accordance with method A of MIL-STD-202F 108, there shall be no physical or mechanical damage to the connector.  After test, contact resistance shall satisfy values as stated in item #7.  Female contact insertion and pulling force shall satisfy values as stated in item #8.  Temperature: +85 °C
		Test Time: 240 hours
18	Temperature Rise	When 1A DC is passed through each contact of connector, the change in temperature of connectors before and after test shall not exceed 30 °C.
19	Solder ability (Male connector only)	When tested in accordance with MIL-STD-202F 208E, a new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.  Solder Temperature: 245±5 °C Immersion Time: 5 seconds
20	Solder Heat (Male connector only)	When tested in accordance with method A of MIL-STD-202F 210A, there shall be no physical or mechanical damage to the connector.  Solder bath temperature: 260±5 °C Immersion Time:10±2 seconds
21	Solvent Resistance (Male connector only)	When tested in accordance with MIL-STD-202F 215E, 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.
22	Contact Retention (Male connector only)	When a force of 4.9 N is applied to any contact in direction along the axis of retention, there shall be no damage or loosing of the contact.