HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN	Date issued	Feb. 27, 2006	
	Approved by	Checked by	Written by
Product Specification 0.5mm Spacing QZAC type floating connector	S. Furusawa	T. Sato	Y.Ohki

	1	Jan.15, 2007	Y.Ohki	Changed current rating
	LTR.	Date	By	Description

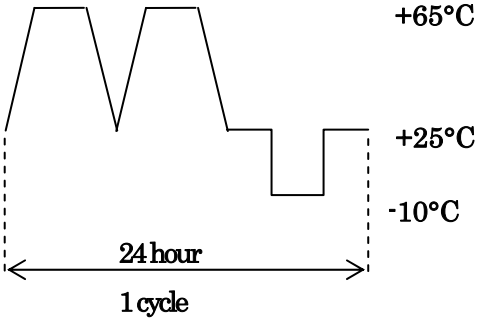
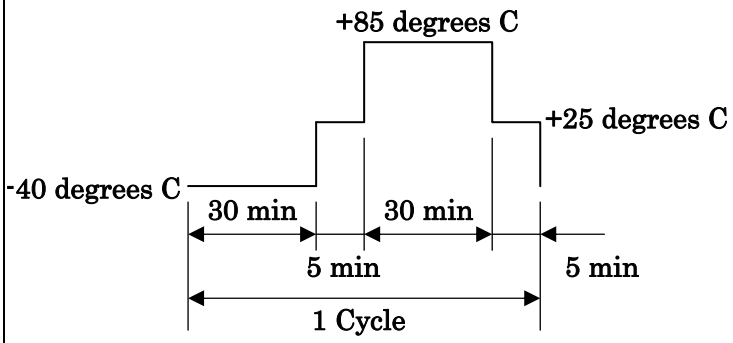
onnector part No.

Type	Part No.
Female connector	QZAC-( )FY( )( )-( )+
Male connector	QZAC-( )MY( )( )+

Specification

No.	Item	Specification
1	Current Rating	0.3 amp D.C. maximum per contact 1
2	Voltage Rating	50 volts A.C. (r.m.s.)
3	Operating Temperature	-40 to +85 degrees C
4	Storage Temperature	-40 to +85 degrees C
5	Humidity	85%Rh maximum
6	Insulation Resistance	When tested in accordance with method 302 of MIL-STD-202F, Test condition A, insulation resistance shall be a minimum of 1000 MΩ at 100 volts D.C..
7	Dielectric Withstanding Voltage	When tested in accordance with method 301 of MIL-STD-202F, there shall be no breakdown of insulation or flashover at 200 volts A.C. (r.m.s.) for a minute.
8	Contact Resistance	When tested in accordance with JIS C 5402 5.4, contact resistance shall not exceed 160 mΩ without conductor resistance.
9	Connector Insertion and Withdrawal Force (Overall)	Insertion Force The force required to insert mating male connector into the female one shall not exceed the value in the below table. Withdrawal Force The force required to withdraw mated male connector from the female one shall not be less than the value in the below table.
10	Durability	When subjected to 100 cycles of insertion and withdrawal cycles with mating male connector at the rate of 600 cycles per hour, there shall be no evident physical damage to the connectors. After the test, the contact resistance shall not exceed 180 mΩ.

No. of pos.	Insertion Force	Withdrawal Force
80	24 N Max. 8 N Min.	16 N Max. 3 N Min.

No.	Item	Specification
11	Humidity temperature cycling	When tested in accordance with method 106 of MIL-STD-202F, there shall be no physical damage to the connectors. After the test, the insulation resistance shall be no less than 100 MΩ. The contact resistance shall not exceed 180 mΩ as well.  Humidity: 80% to 98% Number of cycles: 10
12	Thermal Shock	When tested in accordance with JIS C 5402 7.2, (5 cycles in the environment shown in below program), there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 180 mΩ. 
13	Vibration	When tested in accordance with method 201 of MIL-STD-202F, Test condition A (Frequency: 10 Hz to 55Hz, Acceleration: 147 m/s² peak, Magnitude: 1.52 mm), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 180 mΩ.
14	Physical Shock	When tested in accordance with method 213 of MIL-STD-202F, Test condition A (Semi-sine wave, Acceleration: 490 m/s², Standard holding time: 6 msec.), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 180 mΩ.

No.	Item	Specification
15	Salt Spray	When tested in accordance with method 101 of MIL-STD-202F, Test condition B, there shall be no any excessive corrosion on the every part of connectors. Concentration: 5% Temperature: 35 degrees C Duration: 48hours After the test, the contact resistance shall not exceed 180 mΩ.
16	Resistance to SO_2 gas	When tested in accordance with JIS H 8502 10.1, there shall be no any excessive corrosion on the every part of connectors. Concentration: 10 ppm Duration: 24 hours After the test, the contact resistance shall not exceed 180 mΩ.
17	High Temperature Life	When tested in accordance with method 108A of MIL-STD-202F, there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 180 mΩ. Temperature : +85 degrees C Duration: 96 hours
18	Cold Resistance	When tested in accordance with JIS C 5402 7.9, there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 180 mΩ. Temperature : -40 degrees C Duration: 96 hours

No.	Item	Specification
19	Solderability	When tested in accordance with method I of JIS C 60068-2-54, (Solder temperature: 245 degrees C ± 5 degrees C, Duration: 5 sec.) , contact termination area should be at least 95% covered by continuous new solder coating.
20	Solder Heat	There shall be no damage to the connector. ○Reflow soldering Solder temperature : 240 degrees C ± 5 degrees C Duration : 5 seconds

Reflow temperature profile