HONDATSUSHIN KOGYO CO.,LTD.		SHEET	10F4				
TOKYO JAPAN			DATE	SEP24.2002			
				APPROV	ED BY	CHECKED BY	WRITTEN BY
PRODUCT SPECIFICATION				1	_	.b	ĮQ.
PCR-E TYPE CONNECTOR				adautil	dilly	Jermin	//antha
1.27mm SPACING BOARD TO CABLE CONNECTOR.							$\left  \bigwedge_{i} \right $
				SIFUR	USAWA	К.НОММА	T.KAWANO
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		MAR.	31.2003	TK	Rot	15	
CONTRICATOR PARTAIO	Δ	JUL	.7.2003	T.K	Change Thermal Shock Temperatu		
CONNECTOR PART NO.	LTR.		ATE	BY	REV.DESCRIPT		

PCR-E TYPE FEMALE CONNECTOR

PCR-E()F()+ PCR-E()DF()+

PCR-E()DSFB()+

PCR-E()DSF()+ PCR-E()SFS()+

PCR-ETYPE MALE CONNECTOR

PCR-E()MD()+ @ PCR-E()LMD()+ PCR-E()PM()

## **CHARACTERISTICS**

No.	ITEM	SPECIFICATION	
1	Currentrating	1 Ampere DC maximum per contact	
2	Voltage rating	250 Volts AC(r.m.s.)	
3	Operating temperature	-55°C ~ +105°C	
4	Storage temperature	-55°C ~ +105°C	
5	Humidity	85 %RH maximum	

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No.	ПЕМ	SPECIFICATION SPECIFICATION							
6	Insulation resistance	When tested in accordance with method 302 of MIL-STD-202F, the insulation resistance shall be a minimum of 1000 M $\Omega$ at 250 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 500 volts AC(r.m.s.) for a minute.							
8	Contact resistance	When tested in accordance with method 307 of MIL-STD-202F, the contact resistance shall not exceed 35 m $\Omega$ including the conductor resistance.							
9	Female contact insertion and pulling force (Individual)	Insertion Force: 2.9 N maximum. Pulling Force: 0.3N minimum.  t=1  2.1±0.003  R0.3  Fig-1 Profile of steel pin gauge							
		No of Dog		20	20	50	60	00	UnitN
10	Connector insertion and withdrawal force (Overall)	No.of Pos. Insertion Force (MAX.)	44.1	50.0	36 55.9	50 66.6	79.4	80	96
		Withdraw Force (MIN.)	5.9	7.8	9.8	14.7	19.6	22.5	29.4
11	Humidity (Steady state)	When tested in accordance with method 106 of MIL-STD-202F method (as shown below), there shall not be evidence of cracking of insulator or other physical damage to the connector.  After the test, the insulation resistance shall not be less than 500 MΩ at 250vofts D.C., there shall not be breakdown of insulation or flashover at 500 vofts A.C.(r.m.s.) for a minute. Δ  The contact resistance shall not exceed 35 mΩ.  65°C  25°C  -10°C  Humidity:90% to 98%  Number of cycles:10  A CONNECTORS Tokyo, Japan							

No	ITEM	SPECIFICATION SPECIFICATION
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		When tested in accordance with method 107 of MIL-STD-202F (as shown below), there shall be no evidence of racking and crazing of the body, other physical damage to the connector.  After the test,the contact resistance shall not exceed 35 mΩ.  +105°C
12	Thermal Shock	Temperature :-40°C to 105°C \(\frac{1}{\text{Number of cycles :10}}\)
11	Vibration	When tested in accordance with method 204 of MIL-STD-202F test conditionB (as shown below), there shall be no physical and mechanical damage to the connector.  Test method: Frequency range: 10Hz to 500Hz  Full amplitude: 1.5mm  Acceleration: 98m/s²  During vibration, there shall be no discontinuity of the test circuit greater than 1 μsec.(100 mADC of current applied for the circuit) and the contact resistance shall not exceed 35 mΩ.
12	Shock	When tested in accordance with method 213 of MIL-STD-202F test conditionC (as shown below), there shall be no physical and mechanical damage to the connector.  Test method: Peak acceleration: 490 m/s²  Duration: 11 ms  Waveform: Half-sine pulse  During the test, there shall be no discontinuity of the test circuit greater than 1 μsec. (100 mADC of current applied for the circuit.) and the contact resistance shall not exceed 35 mΩ.
13	Durability	When subjected to 500 cycles of insertion and withdrawal with mating connector at the rate of 600 cycles per hour, there shall be no evidence damage to the connectors such as cracking.  After test, the contact resistance shall not exceed $35\mathrm{m}\Omega$ .
14	Salt spray (Corrosion)	When tested in accordance with method 101 of MIL-STD-202F test condition B(as shown below), there shall be no any excessive corrosion on connector:

No	ITEM	SPECIFICATION SPECIFICATION
15	Hydrogen Sulfied (H₂S)	When tested in accordance with JIS H 8502 (as shown below), there shall not be excessive corrosion on any part of connector.  Test method: Concentration : 3±1ppm  Temperature : 40°C  Duration : 96 hours  After the test, the contact resistance shall not exceed 35 mΩ.
16	Temperature life	When tested in accordance with method 108 of MIL-STD-202F (as shown below), there shall be no evidence of cracking and crazing of the body, other physical damage to the connector.  Test method: Temperature: 85±2°C  Duration: 500 hours  After the test, the contact resistance shall not exceed 35 mΩ.
17	Resistance to cold	When tested in accordance with method of JIS C 5402 (as shown below), there shall be no evidence of cracking and crazing of the body, other physical damage to the connector.  Test method: Temperature: $-40^{\circ}$ C  Duration: $500$ hours  After the test, the contact resistance shall not exceed 35 m $\Omega$ .
18	Resistance to solvents	When tested in accordance with method 215 of MIL-STD-202F, there shall be no change color of the connector deaned by Ethyl-Alcohol, Trichloro Ethane.
19	Solderabirity,wetting,soder bath method	When tested in accordance with method 208 of MIL-STD-202F, the dipped surface coarting more than 90%.  Test method : Temperature of solder bath : 230±5°C Immersion time : 5sec
20	Resistance to soldering heat, solder Iron method	When tested in accordance with method 210 of MIL-STD-202F, there shall not be excessive thermal damage on connector.  Test method: Temperature of solder bath: 350±5°C  Time: 3sec 🛆
21	Lock resistance	98N MIN.

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