

## Excellent Integrated System Limited

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	<b>PRODUCT SPECIFICATION</b>		LANGUAGE
			ENGLISH

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**ELECTRICAL**

Item	Test Condition	Requirement
Contact Resistance	Mated dummy card dry circuit measurement, 20mV Max. 10mA Max.	<b>100</b> milliohm Maximum initial & After test Including: Connector contacts Detection switch
Insulation Resistance	Apply 500V DC between adjacent terminals or ground (base upon MIL-STD-202 method 302)	<b>1000</b> Megohms Minimum initial <b>100</b> Megohms Minimum After test
Withstanding Voltage	Apply 500 V AC for 1 min. between adjacent terminals or ground (base upon MIL-STD-202 method 301)	No breakdown

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**MECHANICAL**

Item	Test Condition	Requirement
Push in strength	The card is inserted in positive and the opposite direction and the load of 19.6 (2 kgf) is added with 1 minute and repeated 5 times.	Appearance : No Damage
Card Insertion force	Push the card at the speed rate of 25 +/-3mm/minute on card pushing position.	Insertion force:15N Max ( 1.5 kgf Max.)
Card Retention Force	Pull out the card directly at the speed rate of 25 +/-3mm/minute on card lock position.	Withdrawal force: 4 N Min. ( 0.4kgf Min.)
Terminal Normal Force	Apply axial push-out force at the speed of 25 +/-3 mm/min.	0.2 N Min. Per Pin (0.02 kgf Min. per pin)
Durability (Push in/ push out)	Insertion and extraction are repeated 10,000 cycles with the actually card at the speed rate of 400-600 cycles/hour. Exchange the actually card every 2000 cycles.	Appearance :No damage Contact Resistance: 100 milliohm Max. measuring by dummy card

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## ENVIRONMENTAL

Item	Test Condition	Requirement
Vibration	Mate dummy card and subject to the following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axis, passing DC 1mA during the test. Amplitude : 1.52mm P-P Frequency : 10-55-10 Hz shall be traversed in 1 minute. ( MIL-STD-202 Method 201 )	Appearance : No damage.  Contact resistance: 100 milliohms MAX.  Discontinuity: 1 microsecond MAX.
Shock	Mate dummy card and subject to the following shock conditions. 3 shocks shall be applied along 3 mutually perpendicular axis, passing DC 1mA current during the test. ( Total of 18 shocks) Test Pulse: Half Sine. Peak Value : 490m/s <sup>2</sup> Duration : 11ms ( MIL-STD-202 Method 213,)	Appearance : No damage.  Contact resistance: 100 milliohms MAX.  Discontinuity: 1 microsecond MAX.
Moisture Resistance	Mated dummy card and subject to the conditions specified on per.( 6) for 9 cycles. The test specimens shall exposed to step 7a during only 5 out of 9 cycles. A 10th cycles consisting of only step 1 through 6 is then performed, after which the test specimens shall be conditioned at ambient room conditions for 24 hours. (MIL-STD-202 Method 106)	Appearance : No damage  Contact resistance: 100 milliohms MAX.  Dielectric strength : Must meet electrical requirement.  Insulation resistance : 100 Megohms Minimum.
Solderability	Dip solder tails into the molten solder ( held at 230 +5°C/-5°C ) up to 0.5mm from the tip of tail for 3+/-0.5sec.	Solder coverage : 95% Min.
Temperature Rise	Mated with dummy card measure the temperature rise at the rated current after 96 hours	Temperature rise <b>30°C</b> Maximum

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Item	Test Condition	Requirement
Temperature cycling	Mate connector and subject to the following conditions for 5 cycles. Upon completions of the exposure period, the test specimens shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle a) -55 + 5°/- 5°C 30min. b) +85 +2°/- 2°C 30min. Transit tie shall be within 3 min.	Appearance : No damage  Contact resistance : 100 milliohm MAX.
Heat Resistance	Mate connector and exposed to 85 °C +2°/-2°C for 96 hours. Upon completions of the exposure period, the test specimens shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed (MIL-STD-202 Method 108)	Appearance : No damage.  Contact resistance : 100 milliohm MAX.
Cold Resistance	Mate connector and exposed to -40°C +2°/-2°C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed (MIL-STD-202 Method 108)	Appearance : No damage.  Contact resistance : 100 milliohm MAX.
Salt spray	Mate connector and exposed to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed NaCL solution concentration : 5+/- 1% Spray time : 48 hours Ambient temperature : 35 +2°C/-2 °C. (MIL-STD-1344)	Appearance : No damage.  Contact resistance : 100 milliohm MAX.
SO <sub>2</sub> Gas	Mate dummy card and expose to 50+/-5 ppm SO <sub>2</sub> gas, ambient temperature 40+/- 2°C, relative humidity 75 %for 24 hours.	Appearance : No damage.  Contact resistance : 100 milliohm MAX.

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**6.0 INFRARED RELOLW CONDITIONS**

Item	Test Condition	Requirement
Resistance to soldering Heat	<p>( INFRARED SOLDERING CONDITION )</p> <p>TEMPERATURE CONDITION GRAPH TEMPERATURE ON BOARD PATTERN SIDE TWICE</p> <p>260 deg C (PEAK TEMP.)</p> <p>3 deg C/sec Max</p> <p>60~120 sec → ( Pre-heat 150~180deg C )</p> <p>40sec Min</p> <p>230 deg C Min</p> <p>200 deg C min.</p> <p>cooling in still</p> <p>(NOTE)</p> <p>1. Please check the reflow soldering condition by your own devices beforehand</p> <p>2. Thickness of the cream solder shall be maintained 0.12mm MIN. After reflow process. Because the condition changes by the soldering devices, P.C.Boards, and so on.</p>	Appearance: No Damage . After 2 times of reflow

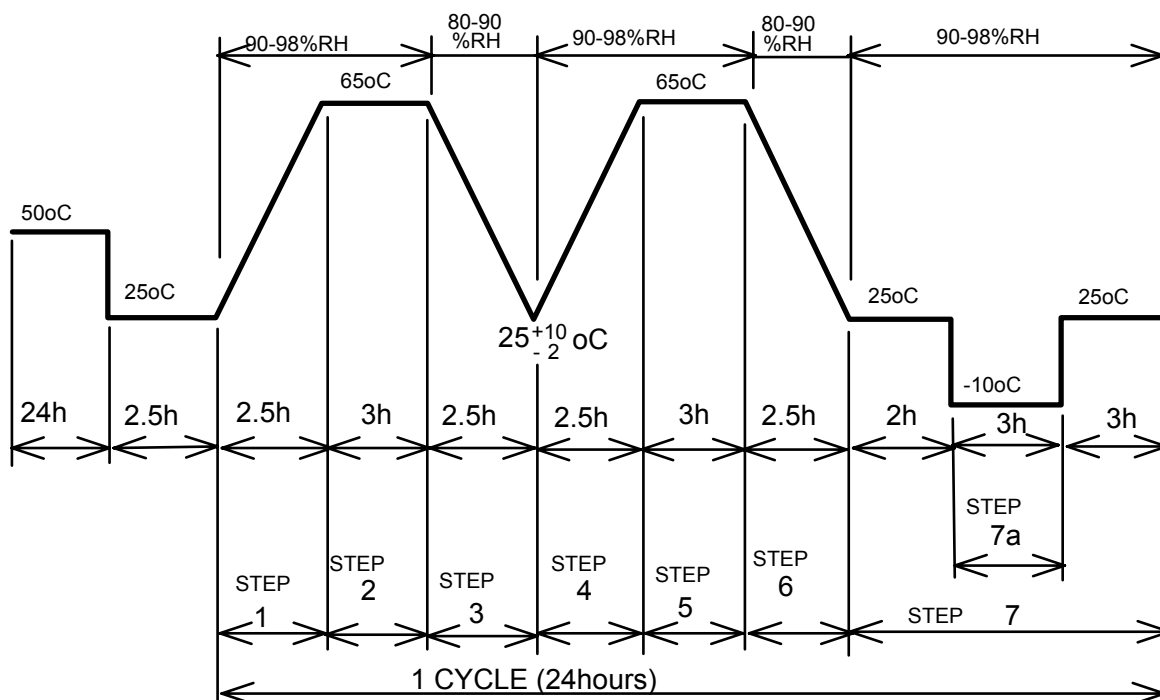
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## 7.0 MOISTURE RESISTANCE CONDITIONS

### MIL-STD-202 METHOD 106



## 8.0 APPLICATION NOTES

### 8.1 washing after soldering

Please wash only the soldering part partially when washing after this item is soldered when a whole soaking etc. are. washed, the insertion and extraction of the card might become difficult.

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