

<b>ENGINEERING DEPT.</b>		<b>PRODUCT SPECIFICATION</b>  <b>For CVS1 Series Connector System</b>	<b>SPEC.NO.: SPCVS001A</b>
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1. SCOPE:

This product specification contains the test method the general performance and requirement for CVS1 series connectors.

2. APPLICABLE DOCUMENTS:

Reference documents listed below shall be the latest revision unless otherwise specified. Should a conflict occur between this specification and any of the listed documents then this specification shall prevail.

2.1 Industry standards :

EIA-364 electrical connector test procedures

3. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

4. MATERIALS

See attached drawing

5. ACCOMMODATED P.C.BOARD

5.1 Thickness: 0.8 mm (.031") ~ 1.6 mm (.063")

5.2 P.C. Board Layout: See attached drawings



REVIEWED : Eisley APPROVED : Sun VERIFIED : Una

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#### 6. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
6.1	Rated current and voltage		0.5A AC/DC max. 100V AC/DC max.
6.2	Contact Resistance	Measured at 20 mV maximum open circuit at 100mA .Mated test contacts must be in a connector housing. Test as per EIA364-23	Initially :Less than 40 mΩ Finally :Less than 80 mΩ
6.3	Dielectric strength	Test between adjacent contacts with a voltage of 500 VAC for 1 minute at Sea level Test as per EIA364-20 Method B	No current leakage and flashover or damage detected.
6.4	Insulation Resistance	After 500 VDC for 1 minute ,measure the insulation resistance between the adjacent contacts. Test as per EIA364-21	More than 100 MΩ

#### 7. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Contact retaining force in insulator	The end of terminal shall be pulled in a perpendicular to base housing at a maximum rate of 25 mm per minute. Test as per EIA 364-29	0.15 Kgf(1.47N) Min.
7.2	Durability	Mating and Unmating the connectors for 20 cycles. EIA364-09	Appearance: No damage Meet requirements of specified in 6.2

#### 8. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Vibration	Subject mated connectors to : Frequency : 10-55-10 Hz Amplitude : 1.5 mm Direction : three perpendicular axes Direction : X 、Y 、Z axes/2 hours Test as per EIA 364 – 28 Condition V test letter A.	Appearance: No damage Discontinuity: 1 micro second max.

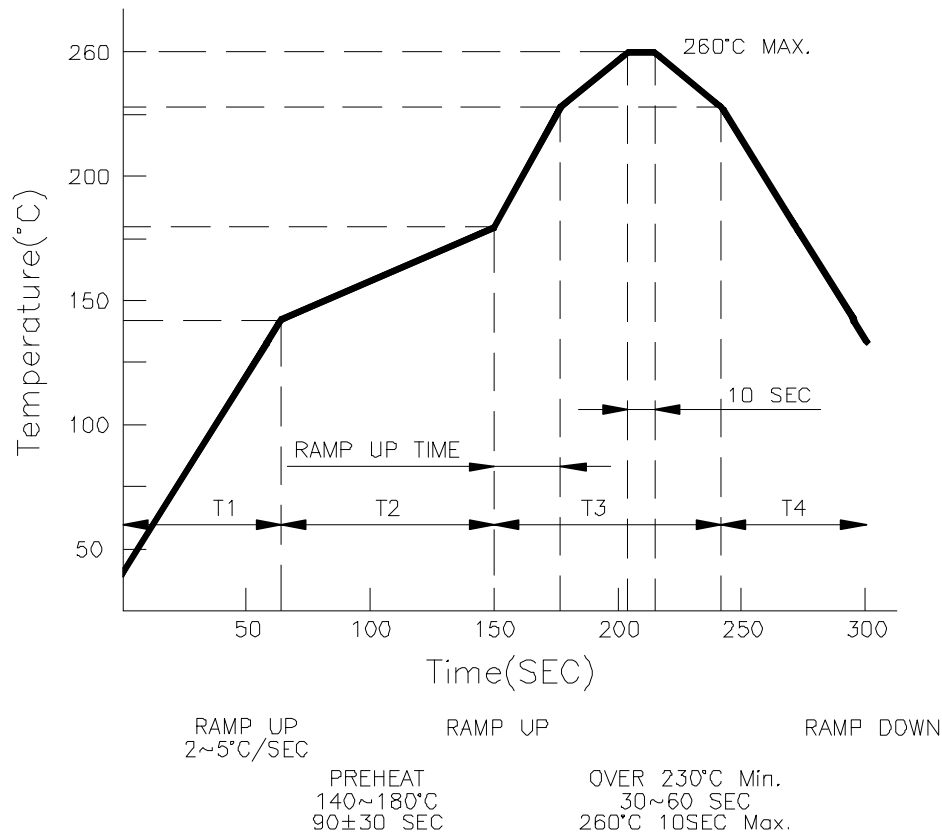
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	ITEM	TEST CONDITION	REQUIREMENT
8.2	Physical Shock	Subject mated connectors to 30 g's half-sine shock pulses of 11ms duration. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks. Test as per EIA364-27 condition H	Appearance: No damage Discontinuity: 1 micro second max.
8.3	Humidity	Subject unmated connectors to 96 hours at 60°C with 90% to 95% R.H. Test as per EIA 364 – 31 Method II Test Condition A.	Appearance : No damage Contact resistance 、 Insulation resistance and Dielectric strength shall meet requirement of 6.2 、 6.3 、 6.4
8.4	Temperature cycling	Subject unmated connectors shall be tested in accordance with EIA364–32 Test Condition I . (1)-55°C±2,30 minute (2)+25°C±2,5 minute (3)+85°C±2,30 minute (4)+25°C±2,5 minute consecutive 5 cycles.	Appearance : No damage Contact resistance shall meet requirement of 6.2
8.5	Salt spray	Subject specimens to 5% salt concentration at 35±2°C for 48 hours	Appearance : No damage Contact resistance shall meet requirement of 6.2
8.6	Solderability	Solder time to be 5±1 seconds at 245°C, using unactivated flux. Test as per EIA364-52	Minimum: 95% of immersed area
8.7	Heat aging	The specimens subjected to the chamber temperature of 85±2°C for 96 hours. Test as per EIA 364 – 17B	Appearance : No damage Contact resistance shall be meet 6.2
8.8	Resistance to soldering heat	Soldering time: 10 second Soldering pot: 260°C max. Reflow soldering (Infrared): Refer soldering method The conditions specified on paragraph 10 Shell be repeated twice.	No damage

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9. Operating temperature range : -40°C to +80°C ; Storage temperature range : -40°C to +80°C

10..Recommended Temperature Profile(Lead-Free):



T1:	Temperature Ramp Up Rate	2~5°C/SEC
T2:	Prehead: 140°C~180°C	90±30 SEEC
T3:	Time Over 230°C	30~60 SEC
T4:	Ramp Down Rate During Cooling	4~7°C/SEC
	Pear Temperature	260°Max.

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11. TEST SEQUENCES IDENTIFICATION:

Test Group Test of description		A	B	C	D	E	F	G	H
1	Examination of product	1,5	1,9	1,5	1,5	1,5	1,3	1,3	1,4
2	Contact Resistance	2,4	2,6	2,4	2,4	2,4			
3	Dielectric strength		4,8						
4	Insulation Resistance		3,7						
5	Durability	3							
6	Humidity		5						
7	Heat aging			3					
8	Salt Spray				3				
9	Temperature Cycling					3			
10	Solderability						2		
11	Resistance to soldering heat							2	
12	Random Vibration								2
13	Physical Shock								3