ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.:	SPCH036B
DEPT.	For Pitch 1.27mm(.050") Pin Header of System CH53	PAGE:	1/3

#### 1. SCOPE:

This specification contains the test requirement of subject pin headers when tested under the condition and below standards base on CviLux test procedure

### 2. APPLICABLE STANDARDS:

MIL - STD - 202 Methods for test of connectors for electronic equipment

MIL - STD - 1344 Test methods for electrical connectors

JIS - C - 5402 Methods for test of connectors for electronic equipment

UL 94 Test for flammability of plastic materials for parts in devices and

appliance

SS-00254 Test methods for electronic components ,LEAD-FREE soldering Part

design standards

3. APPLICABLE SERIES No.: CH53 Series

### 4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

### 5. MATERIALS

See attached drawings

#### 6. ACCOMMODATED P.C.BOARD

(P.C. Board on which the Pin Header are installed), 1.6 mm (.063")



REVIEWED : Alex	APPROVED :_	David	_VERIFIED :_	Sun	
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### 7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
7.1	Rated current and voltage		1.5A 250V AC (r.m.s.)
7.2	Contact resistance	Dry circuit of DC 20 mV max., 100 mA max.	Less than $20 \text{ m}\Omega$
7.3	Dielectric strength	When applied AC 600 V 1 minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than $1000 \text{ M}\Omega$

# 8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Pin retention force	Push pin from insulator base at speed	Square Pin:
		25± 3 mm per minute	More than 0.3 Kgf
			Round Pin:
			More than 0.6 Kgf

# 9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Solder ability	Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5°C	Minimum: 90% of immersed area
9.2	Resistance to soldering heat	Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5°C	No damage
9.3	Heat aging	105± 2°C, 96 hours	No damage
9.4	Humidity	40± 2°C, 90-95% RH, 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3
9.5	Temperature cycling	One cycle consists of:  (1)-55	Appearance: No damage Contact resistance: Less than twice of initial



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	ITEM	TEST CONDITION	REQUIREMENT
9.6	Salt spray	Temperature: 35± 3°C	Appearance: No damage
		Solution: 5± 1%	Contact resistance:
		Spray time: 48± 4 hours	Less than twice of initial
		Measurement must be taken after water rinse	

# 10. AMBIENT TEMPERATURE RANGE:

-40 to + 105°C