

ENGINEERING	RELIABILITY TEST REPORT	SPEC.NO.:	SPCH058A
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TEST ITEM: 1.ELECTRICAL

2.MECHANICAL

3.ENVIRONMENTAL

TEST EQUIPMENT: 1.INSERTION & REMOVAL APPARATUS

2.ELECTRONIC MEASURING APPARATUS

3.ENVIRONMENTAL APPARATUS

SERIES NO.: CH09 SERIES

DATE OF TESTING: 2015/04/21

TEST DEPART: R & D

LOT Number:

CONTAIN:

TEST RESULT: ACCEPT REJECT



APPROVE BY: Eisley CHECKED By: Eisley TESTER BY: Sandy

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1.ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TES	ST RESULT
1-1	Rated current and voltage		1A 250V AC (r.m.s)		
1-2	Contact resistance	Dry circuit of DC 20 mV	Less than 20 mΩ	Sample	$20 \text{ m}\Omega$ Max.
		max., 100 mA max		1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
1-3	Dielectric strength	When applied AC 600V 1	No breakdown	Sample	1 minute
	8	minute between adjacent		1	Pass
		terminal		2	Pass
				3	Pass
				4	Pass
				5	Pass
1-4	Insulation resistance	When applied DC 500 V	More than $1000 \mathrm{M}\Omega$	Sample	$1000 \ \mathrm{M}\Omega \ \mathrm{min}.$
		between adjacent terminal		1	Pass
		or ground		2	Pass
				3	Pass
				4	Pass
				5	Pass

2. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TES	T RESULT
2-1	Pin retention force	Push pin from insulator	More than 200gram	Sample	200gram min.
		base at speed 25±3mm per		1	1.440 Kgf
		minute		2	1.597 Kgf
				3	1.417 Kgf
				4	1.394 Kgf
				5	1.512 Kgf

3.ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TES	ST RESULT
3-1	Solder ability	Soldering time:3±0.5 second	Minimum:	Sample	> 90%
			90% of immersed	1	Pass
		bolucing pot. 2+3 ± 5 °C	area	2	Pass
				3	Pass
				4	Pass
				5	Pass

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	ITEM	TEST CONDITION	REQUIREMENT	TES	ST RESULT
3-2	Resistance to soldering	Soldering time: 5 ± 0.5	No damage	Sample	No damage
heat	heat	second		1	Pass
		Soldering pot: 260 ± 5°C		2	Pass
				3	Pass
				4	Pass
				5	Pass
3-3	Heat aging	105±2°C , 96 hours	Appearance:	Sample	No damage
			No damage	1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
3-4	Humidity	40 ±2°C, 90-95%RH, 96 hours measurement must be taken within 30 min. after tested	Appearance:	Sample	No damage
			No damage	1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
			Contact resistance: Less than twice of initial	Sample	40 m Ω max
				1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
			Dielectric strength: To pass para 1-3	Sample	600 V 1 minu
			10 pass para 1-3	1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass

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	ITEM	TEST CONDITION	REQUIREMENT	TES	T RESULT
3-5 Temperature cycling	One cycle consists of:	Appearance:	Sample	No damage	
		155 ⁻³ °C, 30 min. 2. Room temp. 10-15 min.	No damage	1	Pass
				2	Pass
		+3		3	Pass
				4	Pass
				5	Pass
			Contact resistance: Less than twice of initial	Sample	40mΩ max
				1	Pass
				2	Pass
			3	Pass	
			4	Pass	
				5	Pass
3-6	Salt spray	Temperature:35±3°C	Appearance: No damage	Sample	No damage
		Solution:5±1%		1	Pass
		Spray time:8±4 hours Measurement must be taken after water rinse		2	Pass
				3	Pass
				4	Pass
				5	Pass
			Contact resistance: Less than twice of initial	Sample	40 m Ω max
				1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass

4. AMBIENT TEMPERATURE RANGE : -40 to + 105° C