RELIABILITY TEST REPORT

TESTITEM: 1.ELECTRICAL

2.MECHANICAL

3.ENVIRONMENTAL

SERIES NO.: CH71 Series

TEST EQUIPMENT: 1.INSERTION & REMOVAL APPARATUS

2.ELECTRONIC MEASURING APPARATUS

3.ENVIRONMENTAL APPARATUS

DATE OF TESTING: 10/21/03

TEST DEPART: QA

CONTAINT: ATTACHED

REVIEWED: STAN APPROVED: Jodal VERIFIED: Clus

1.ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TE	ST RESULT
1-1	Contact resistance	Dry circuit of DC 20mV	Less than $20 \text{ m}\Omega$	Sample	$20 \text{ m}\Omega$ max.
		max.100mA max.		1	$6.76~\mathrm{m}\Omega$
				2	$6.92~\mathrm{m}\Omega$
				3	$7.02~\mathrm{m}\Omega$
				4	$6.54~\mathrm{m}\Omega$
				5	$6.87~\mathrm{m}\Omega$
1-2	Dielectric strength	When applied AC 1000V 1	No change	Sample	1000 V 1 minute
		minute between adjacent		1	Pass
		terminal		2	Pass
				3	Pass
				4	Pass
				5	Pass
1-3	Insulation resistance	When applied DC 500 V	More than $1000 \text{ M}\Omega$	Sample	$1000 \text{ M}\Omega \text{ min.}$
	between adjacent to or ground	between adjacent terminal	erminal	1	80*10 ⁵ MΩ
		or ground		2	$80*10^5 \mathrm{M}\Omega$
				3	90*10 ⁵ MΩ
				4	80*10 ⁵ MΩ
				5	90*10 ⁵ MΩ

2. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
2-1	Pin retention force	Push pin from insulator base	More than 0.8 Kgf	Sample	0.8Kgf min.
		at speed 25±3mm per minute	_	1	1.29 Kgf
		•		2	1.44 Kgf
				3	1.58 Kgf
				4	1.37 Kgf
				5	1.25 Kgf

3. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TE	ST RESULT
3-1	Solderability	Soldering time: 5 ±0.5 sec.	Minimum:	Sample	90% of Immersed area
		Soldering pot:230 ±5	90% of immersed	1	Pass
		Soldering pot.230 D	area	2	Pass
				3	Pass
				4	Pass
				5	Pass
3-2	Resistance to soldering	Insulator: Glass filled	Appearance:	Sample	No damage
	heat	polyester UL 94V-0	No damage	1	Pass
		Soldering time: 5 ±0.5 sec.	i to damage	2	Pass
		Soldering pot:260 ±5		3	Pass
		Boldering pot.200 L		4	Pass
				5	Pass

		Insulator: Nylon 6T	Appearance:	Sample	No damage
		Max. Infrared Reflow	No damage	1	Pass
		Soldering temperature &	1 to dumage	2	Pass
		time: 230 for 60 sec		3	Pass
		260 for 10 sec		4	Pass
		200 101 10 sec		5	Pass
3-3	Heat aging	105 ± , 96 hours	Appearance: No damage	Sample	No damage
				1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
3-4	Humidity	40 ±2 , 90-95%RH, 96	Appearance:	Sample	No damage
		hours measurement must be	No damage	1	Pass
		taken within 30 min. after tested		2	Pass
		lested		3	Pass
				4	Pass
				5	Pass
			Contact resistance: Less than twice of initial	Sample	< twice of initi
				1	$7.77~\mathrm{m}\Omega$
				2	$7.94~\mathrm{m}\Omega$
				3	$8.06~\mathrm{m}\Omega$
				4	$7.59~\mathrm{m}\Omega$
				5	7.88 mΩ
			Dielectric strength: To pass Para 1-2	Sample	Pass para 1-2
				1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
3-5	155 ⁻⁰ , 30 min 2. Room temp. 10- 3. 85 ⁻³ , 30 min	2. Room temp. 10-15 min	min No damage . 10-15 min iin	Sample	No damage
				1	Pass
				2	Pass
				3	Pass
				4	Pass
				5	Pass
				Sample	< twice of initia
				1	7.79 mΩ
				2	7.96 mΩ
				3	8.03 mΩ
				4	7.55 mΩ
				5	7.86 mΩ

3-6	Salt spray	Temperature:35±3°C	Appearance:	Sample	No damage
	The state of the s	Solution:5±1%	No damage	1	Pass
		Spray time:48±4hours	1 to damage	2	Pass
		Measurement must be taken		3	Pass
		after water rinse		4	Pass
				5	Pass
			Contact resistance:	Sample	< twice of initial
			Less than twice of	1	$7.78~\mathrm{m}\Omega$
			initial	2	$7.92~\mathrm{m}\Omega$
				3	8.04 mΩ
				4	$7.55~\mathrm{m}\Omega$
				5	7.89 mΩ