東莞常平瀚荃電子廠
CviLux(B.V.I) Corporation;Factory

RELIABILITY TEST REPORT

TEST ITEM : 1.ELECTRICAL
2.MECHANICAL
3.ENVIRONMENTAL

SERIES NO. : CH11**2SA01-NH
TEST EQUIPMENT : 1.INSERTION & REMOVAL APPARATUS
2.ELECTRONIC MEASURING APPARATUS
3.ENVIRONMENTAL APPARATUS

DATE OF TESTING : 2/23-2010

TEST DEPART : RD TESTER : Wandy

CONTAINT : ATTACHED

REVIEWED : 2/23-10' APPROVED : VERIFIED : Wandy

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1. ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
1-1	Contact Resistance	Dry circuit of DC 20mV max.,100mA max.	Less than 20mΩ	Sample	20mΩ Max.
				1	6.22 mΩ
				2	6.18 mΩ
				3	7.15 mΩ
				4	6.47 mΩ
				5	7.01 mΩ
1-2	Dielectric strength	When applied AC1000V 1 minute between adjacent terminal	No Change	Sample	1000V 1 minute
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
1-3	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ	Sample	1000 MΩ min.
				1	∞
				2	∞
				3	∞
				4	∞
				5	∞

2.MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
2-1	Pin retention force	Push pin from insulator base at speed 25±3mm per minute	More than 0.8Kgf	Sample	0.8Kgf min.
				1	1.117
				2	1.254
				3	1.009
				4	1.146
				5	1.038

3.ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
3-1	Solderability	Soldering time:3±0.5 sec. Soldering pot: 245±5℃	Minimum: 90% of immersed area	Sample	90% of immersed area.
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS

3-2	Resistance to soldering heat	Soldering time:20 second max. Soldering pot: 260℃	Appearance: No damage	Sample	No damage
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
3-3	Heat aging	105±2℃ , 96 hous	Appearance: No damage	Sample	No damage
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
3-4	Humidity	40±2℃,90~95RH,96 Hours measurement must be taken within 30 min. after tested	Aappearance: No damage	Sample	No damage
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
			Contact resistance: Less than twice of initial	Sample	<twice of initial
				1	6.31 mΩ
				2	6.27 mΩ
				3	7.21 mΩ
				4	6.62 mΩ
				5	7.12 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	Temperature cycling	One cycle consists of : (1) -55 +0/-3 °C , 30 min. (2) Room temp. 10-15 min. (3)85 +0/-3 °C , 30 min. (4) Room temp. 10-15 min.	Appearance : No damage	Sample	No damage
				1	OK
				2	OK
				3	OK
				4	OK
				5	OK

			Contact resistance: Less than twice of initial	Sample	< twice of initial
				1	6.25mΩ
				2	6.28mΩ
				3	7.23mΩ
				4	6.52mΩ
				5	7.15mΩ
3-6	Salt spray	Temperature:35±3°C Solution:5±1% Spray time:48±4hours Measurement must be taken After water rinse	Appearance : No damage	Sample	No damage
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
			Contact resistance: Less than twice of initial	Sample	< twice of initial
				1	6.31mΩ
				2	6.27mΩ
				3	7.32mΩ
				4	6.56mΩ
				5	7.12mΩ