

RELIABILITY TEST REPORT

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

SERIES NO.: CH17052MA00-NH

TEST EQUIPMENT: 1.INSERTION & REMOVAL APPARATUS
2.ELECTRONIC MEASURING APPARATUS
3.ENVIRONMENTAL APPARATUS

DATE OF TESTING: 2014 / 12 / 31

TEST DEPART: RD TESTER:

CONTAIN: ATTACHED



REVIEWED : David APPROVED : Eisley VERIFIED : Denis .

1. ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
1-1	Rated current and voltage		3A 250 V AC/DC (r.m.s)		
1-2	Dielectric strength	When applied AC 1000V 1minute between adjacent terminal	No change	Sample	500 V 1 minute
				1	Pass
				2	Pass
				3	Pass
				4	Pass
1-3	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 5000 MΩ	Sample	5000 MΩ min.
				1	10×10 ⁶ Ω
				2	10×10 ⁶ Ω
				3	10×10 ⁶ Ω
				4	10×10 ⁶ Ω
	5	10×10 ⁶ Ω			

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 0.4 kgf	Sample	0.4 kgf min.
				1	1.55 Kgf
				2	1.68 Kgf
				3	1.64 Kgf
				4	1.42 Kgf
	5	1.38 Kgf			

3. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
3-1	Solder ability	Soldering time: 3±0.5 sec. Soldering pot: 240±5°C	Minimum: 95% of immersed area	Sample	95% of Immersed area
				1	Pass
				2	Pass
				3	Pass
				4	Pass
3-2	Resistance to soldering heat	Lead-Free Process for SMT Type: Refer Reflow temperature profile(5-1)	Appearance: No damage	Sample	No damage
				1	Pass
				2	Pass
				3	Pass
				4	Pass
3-3	Heat aging	105±3°C , 96 hours	Appearance: No damage	Sample	No damage
				1	Pass
				2	Pass
				3	Pass
				4	Pass
	5	Pass			

ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
			Sample	No damage
3-4 Cold Resistance	-40±3°C , 96 hours	Appearance: No damage	Sample	No damage
			1	Pass
			2	Pass
			3	Pass
			4	Pass
			5	Pass
3-5 Temperature cycling	5 cycle consists of: 1. -40 ⁺⁰ ₋₃ °C, 30 min 2. Room temp. 10-15 min 3. 105 ⁺³ ₋₀ °C, 30 min 4. Room temp. 10-15 min	Appearance: No damage	Sample	No damage
			1	Pass
			2	Pass
			3	Pass
			4	Pass
			5	Pass
3-6 Salt spray	Temperature:35±2°C Solution:5±1% Spray time:6±1 hours Measurement must be taken after water rinse	Appearance: No damage	Sample	No damage
			1	Pass
			2	Pass
			3	Pass
			4	Pass
			5	Pass

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

5. Recommended IR Reflow Temperature Profile:

5-1 Using Lead-Free Solder Paste

