



瀚荃股份有限公司
CviLux Corporation

RELIABILITY TEST REPORT

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

SERIES NO. : CH31、CH81 2.54mm PIN HEADER

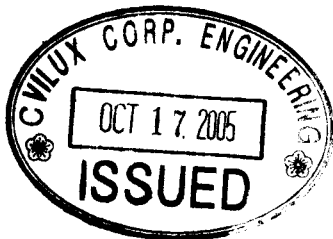
TEST EQUIPMENT : 1.INSERTION & REMOVAL APPARATUS
2.ELECTRONIC MEASURING APPARATUS
3.ENVIRONMENT AL APPARATUS

DATE OF TESTING :

TEST DEPART : R & D

TESTER : Sun.Kuo

CONTAIN : ATTACHED



REVIEWED : AL ¹⁰⁻⁰⁵ / 10/17 APPROVED : David ¹⁰⁻⁰⁵ / 10/17 VERIFIED : Sun



1.ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
				Sample	
1-1	Contact resistance	Dry circuit of DC 20mV max.,100mA max.	Less than 20 mΩ	Sample	20 mΩ max.
				Non RoHS	
				1	6.90
				2	6.99
				3	7.35
				4	7.39
				5	7.58
				RoHS	
				1	6.31
				2	3.21
				3	7.11
				4	7.48
				5	6.80
				1-2	Dielectric strength
Non RoHS					
1	OK				
2	OK				
3	OK				
4	OK				
5	OK				
RoHS					
1	OK				
2	OK				
3	OK				
4	OK				
5	OK				
1-3	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ		
				Non RoHS	
				1	10x10 ⁶
				2	10x10 ⁶
				3	10x10 ⁶
				4	10x10 ⁶
				5	10x10 ⁶
				RoHS	
				1	10x10 ⁶
				2	10x10 ⁶
				3	10x10 ⁶
				4	10x10 ⁶
				5	10x10 ⁶



2. MECHANICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT					
				Sample					
2-1	Pin retention force (Before Solderability)	Push pin from insulator base at speed 25± 3 mm per minute	More than 0.8 Kgf	0.8Kgf min.					
				Non RoHS					
				1	2.212				
				2	2.101				
				3	1.772				
				4	1.622				
				5	1.720				
				RoHS					
				1	1.750				
				2	1.868				
				3	2.391				
				4	2.194				
				5	2.089				
				2-2	Pin retention force (After Solderability)	Push pin from insulator base at speed 25± 3 mm per minute	0.2Kgf (Ref.)	Non RoHS	
								1	0.211
2	0.156								
3	0.117								
4	0.089								
5	0.084								
RoHS									
1	0.190								
2	0.212								
3	0.198								
4	0.191								
5	0.184								

3. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
				Sample	
3-1	Solderability	Soldering time:5±0.5 °C second Soldering Pot:230±5 °C	90% of immersed area	90%↑	
				Non RoHS	
				1	OK
				2	OK
				3	OK
				4	OK
				5	OK
				RoHS	
				1	OK
				2	OK
				3	OK
				4	OK
				5	OK



ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT				
			Sample	No damage			
3-2 Heat aging	105± 2°C, 96 hours	No damage	Non RoHS				
			1	OK			
			2	OK			
			3	OK			
			4	OK			
			5	OK			
			RoHS				
			1	OK			
			2	OK			
			3	OK			
			4	OK			
			5	OK			
			3-3 Insulation resistance	When applied DC 500 V between adjacent terminal or ground	Contact resistance: Less than twice of initial	Sample	40 mΩ max.
						Non RoHS	
1	6.26						
2	6.09						
3	6.06						
4	6.28						
5	6.60						
RoHS							
1	6.91						
2	6.70						
3	6.50						
4	6.80						
5	6.40						
		Dielectric strength: To pass para 1-2				Sample	1500V 1 minute
			Non RoHS				
			1	OK			
			2	OK			
			3	OK			
			4	OK			
			5	OK			
			RoHS				
			1	OK			
			2	OK			
			3	OK			
			4	OK			
			5	OK			