瀚荃股份有限公司
CviLux Corporation

RELIABILITY TEST REPORT

TESTITEM : 1.ELECTRICAL
2.MECHANICAL

SERIES NO. : CF25 Halogen-Free SERIES

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

DATE OF TESTING : 9/24-10’

TEST DEPART : R&D TESTER :Steven

CONTAINT : ATTACHED

REVIEWED : David APPROVED : Eisley VERIFIED : Steven .

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1. ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
1-1	Dielectric strength	For 0.5mm Pitch When applied AC 150V 1 minute between adjacent terminal For 1.0mm Pitch When applied AC 500V 1 minute between adjacent terminal	No Damage		150 V 1 minute
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
					500 V 1 minute
				1	PASS
				2	PASS
				3	PASS
				4	PASS
				5	PASS
1-2	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 500 MΩ	1	∞
				2	∞
				3	∞
				4	∞
				5	∞
				Avg.	∞
1-3	Contact Resistance	Dry circuit of DC 20mV max.,100mA max.	50 mΩ Max. Initial	1	8.2mΩ
				2	9.8 mΩ
				3	7.7 mΩ
				4	7.2mΩ
				5	7.9 mΩ
				Avg.	8.16 mΩ

2. MECHANICAL PERFORMANCE :

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
2-1	Single contact retaining force in insulator	Retention speed 25±3 mm per minute form housing	More than 0.2 Kgf.	1	0.276
				2	0.276
				3	0.258
				4	0.274
				5	0.256
				Avg.	0.268

	ITEM	TEST CONDITION	REQUIREMENT	TEST RESULT	
2-2	FFC / FPC withdrawal force (Reference data)	Measure force to withdrawal using 0.30mm Thickness FPC/FFC at speed 25±3 mm per minute	(0.07 x no. of Contacts) Kgf min. ※(without trip)	1	11.688
				2	11.767
				3	11.648
				4	11.821
				5	11.644
				Avg.	11.714
			(0.07× no. of Contacts+2.0Kgf) Kgf min. ※(without trip)	1	13.231
				2	13.521
				3	13.015
				4	12.933
				5	12.825
				Avg.	13.105
2-3	Durability	Connector shall be subjected to 20 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial	1	10.3 mΩ
				2	11.0 mΩ
				3	12.2 mΩ
				4	12.5 mΩ
				5	12.1 mΩ