Judgment	Approve	Prepared
PASS Tainan Design Verification	QM-DQA 王鴻凱	QM-DQA 郭桐旗

MTBF Report

The MTBF Report of R315DCJ-KS4 sample

Model：	R315DCJ-KS4	Reporter：	郭桐旗	Date：	2026/3/18	Test Area：	TN Site	Lab Ambient：	15~35℃, <85%RH

I. Test Condition：

Ta = 50℃	Test time =	1,000hrs	Sample Quantity =	15pcs			
Ta = 50℃	Humidity =	80%RH	Test time =	1,000hrs	Sample Quantity =	3pcs	
Ta = 50℃	Test time =	500hrs	Sample Quantity =	6pcs			

II. Judgment Rule：

$\hat{MTBF}_L$ **>50,000 hours @ 90% Confidence Level**

III. Judgment Criteria：

Function OK

IV. Calculating method：

$$\hat{MTBF}_L = \frac{2*\sum(n*AF*t)}{\chi^2((2r+2),CL)}$$

- **n：Quantity of test samples**
- **AF：Acceleration Factor**
- **t：Test Hours**
- **χ2：Chi-square function**
- **r：Failed Quantity**

INX Confidential

V. Test Result：

1. After RA test, the function of all samples is OK.
2. So , r= 0 , χ2 (2r+2)= 4.61 @ 90% Confidence Level
3. RT = 25℃ and Test temperature = 50 ℃ So, AF = 5.65
4. $\hat{MTBF}_L$ = 2*(15*5.65*1000+3*5.65*1000+6*5.65*500)/4.61= 51,475 >50,000 hours

VI. Conclusion：

The $\hat{MTBF}_L$ of R315DCJ-KS4 >50,000 hours

版權屬於群創所有.禁止任何未經授權的使用.
The copyright belongs to INNOLUX. Any unauthorized use is prohibited.