

Life Test Report

Date: Mar.17.2008

Model NO.		SF23080AT-2082HSL.GN		Test Condition			Test Result				
Spec.	Speed	2,750) RPM	Input voltage	230VAC	60Hz	Failed	d Q`ty	5		
	Current	0.07	AMP	Temperature	70 ℃		Life	L10 (hours)	17,108		
Sample tested 50 Pcs		Pcs	Orientation	Vertical		Expectancy	MTTF (hours)	45,460			
Test hours/Each 16,464 Hours			Running	In Free Air							
Failure Definition				Fest Result , (Including Time To Failure , Datum , Statistics etc)							
1. No function.				Accu.F/Q	TTF(Hrs)	<u>UUT</u>	Accu.F/R		Finding		
2. RPM under 15% of original				1	6,384	49	2.00%	Spe	Speed under 15%		
3. Current over 15% of original				2	9,744	48	4.00%	Spe	eed under 15%		
4. Noise over 3dB(A) of original				3	12,432	47	6.00%	Spe	Speed under 15%		
				4	14,616	46	8.00%	Spe	peed under 15%		
The Life Expectancy of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy Test Report(L10/ MTTF Report) that relates to this fan is only for reference.				5	16,464	45	10.00%	Spe	eed under ⁻	15%	
Life calculation according to the equation for Weibull distribution to obtain relevant data				Accelerate Factor; AF = 1.5 (Testing Temp Operating Temp.)/10							
Shape pa	Shape parameter;β 2.0487		2.0487	Temp. Range	30℃	40℃	50 ℃	60 ℃	70 ℃		
Characteristic parameter; θ 51,315 hrs		AF (Multiple)	5.06	3.38	2.25	1.50	1.00				
MTTF =	$MTTF = \theta x \Gamma(1 + \frac{1}{\beta})$ 45,460 hrs		MTTF (hours)	230,141	153,428	102,285	68,190	45,460			
L10 = θ	L10 = $\theta x (0.10536)^{\frac{1}{\beta}}$ 17,108 hrs		L10 (hours)	86,609	57,740	38,493	25,662	17,108			
Approved by: Andy Gas				Checked by: Jony-chiu				Tested by: Debbie			