

# Life Test Report

Date: Feb.17.2011

Model NO.		GM0503PEV2-8.N.GN		Test Condition		Test Result					
Spec.	Speed	7,500	RPM	Input voltage	5 VDC	Failed Q`ty	0				
	Current	0.08	AMP	Temperature	70 °C	Conf. Level	90%				
Sample tested		50	Pcs	Orientation	Vertical	Life Expectancy MTTF(hours)	65,076				
Test hours/Each		3,000	Hours	Running	In Free Air						
Failure Definition				Test Result , (Including Time To Failure , Datum , Statistics ..... etc)							
1. No function. 2. RPM under 15% of original 3. Current over 15% of original 4. Noise over 3dB(A) of original				<u>Accu.F/Q</u>	<u>TTF(Hrs)</u>	<u>UUT</u>	<u>Accu.F/R</u>	<u>Finding</u>			
				0	50	0.00%	No Failure Found				
※ The Life Expectancy of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy MTTF Test Report that relates to this fan is only for reference.				Accelerate Factor ; AF = 1.5 (Testing Temp. - Operating Temp.)/10							
MTTF calculation method :  $MTTF = (2 \times T) / (x^2, \alpha, 2r+2)$ According to confidential level at 90% and Zero failure, it obtains a coefficient of 4.61 from CHI-SQUARE TABLE.				Temp. Range	30°C	40°C	50°C	60°C	70°C		
				AF (Multiple)	5.06	3.38	2.25	1.50	1.00		
				MTTF (hours)	329,447	219,631	146,421	97,614	65,076		
Approved by: <i>Andy Liao</i>				Checked by: <i>Tony-chiu</i>				Tested by: <i>Debbie</i>			

No. : L1101093A