

Sofasco Inc.

THE TEST REPORT OF MTTF

試驗機種 SAMPLES P/N	A20872V1HBT	試驗條件 TEST CONDITION	文件編號 DOCUNEMT NO.	R-8233																													
取樣數量 TESTED SAMPLE	59 PCS.	<input checked="" type="checkbox"/> 溫度 TEMP. : 70 °C <input type="checkbox"/> ON : SEC. <input type="checkbox"/> OFF : SEC. <input type="checkbox"/> 其他 OTHER :	試驗時間	開始 START	2008/7/16 _16:00																												
試驗時間 TESTED HRS/EA	1,500 HRS		TEST PERIOD	結束 FINISHED	2008/9/18 _08:30																												
總試驗時間 TOTAL TEST HRS	88500 HRS																																
故障定義 PRODUCT SPECIFICATION & FAILURE DEFINITION			試驗結果：包含故障時間、數據、統計、...等 TEST RESULT : INCLUDING TIME OF FAILURE、DATUM、STATISTICS、...ETC.																														
1.風扇不轉 (FAN NOT WORK.) 2.轉速超出規格30% (ROUND SPEED OVER 30% ORIGIN.) 3.電流超出規格30% (CURRENT OVER 30% ORIGIN.) Description : 1.性能測試時點 The Time Of Check Point Start , 500Hrs, 1000Hrs And Finished $70^{\circ}\text{C MTTF} = \frac{\text{Total test time (T)}}{\text{Total failure (r)}}$ 2. GEM TABLE Generalized Exponential Model (for Time-Thermiated Test)		<ul style="list-style-type: none"> • 溫度加速因子 TEMP A.F = $2^{(\Delta H / K) \times (\frac{1}{273+Tl} - \frac{1}{273+Th})}$ • 總試驗時間 TOTAL TEST HR: 88500 HRS • 查表得 (MTTF BY GEM TABLE) MTTF = 38435 HRS • L10 = MTTF / 9.5 • 溫度 / TEMP. / MTTF / L10 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>溫度TEMP.</th> <th>信賴水準90% CONFIDENCE LEVEL MTTF</th> <th>L10</th> </tr> </thead> <tbody> <tr> <td>30°C</td> <td>559611</td> <td>58906</td> </tr> <tr> <td>40°C</td> <td>268659</td> <td>28280</td> </tr> <tr> <td>50°C</td> <td>134906</td> <td>14201</td> </tr> <tr> <td>60°C</td> <td>70720</td> <td>7444</td> </tr> <tr> <td>70°C</td> <td>38435</td> <td>4046</td> </tr> </tbody> </table>				溫度TEMP.	信賴水準90% CONFIDENCE LEVEL MTTF	L10	30°C	559611	58906	40°C	268659	28280	50°C	134906	14201	60°C	70720	7444	70°C	38435	4046										
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3. MTTF : Mean Time To Failures. The average life of product from start to totally breakdown, the failure is un-repairable and product is discarded at failure. MTTF : 平均壽命期間，只產品使用到故障不能再使用為止，產品為無法修復且因故障而丟棄。 MTBF : Mean Time Between Failures. It should be used in a repairable system setting. The average interval of failure after a period of time. MTBF : 平均故障區間，使用產品於可修復的狀況下，指產品經一段時間使用，計算修復後平均每一次故障的時間有多長。 Usually, failure fans will not be repaired, so the fan products are suitable for MTTF report. 通常風扇壞掉不被更換。因此，風扇產品適用MTTF試驗報告。																																	
核准 APPROVED BY: MICHAEL WANG		審查 CHECKED BY: PAUL CHEN		製表 PREPARED BY: SAM																													