

MTBF Prediction Report (For Indoor.G_B)

Model: AFL22AUHW-P0

Date: DEC, 28 2017

Reference: Bellcore Method I, Case 3 Reliability Prediction

Technical Reference: SR-332 Issue 3, Feb 2011

Test condition:

Input voltage: 240 Vac

Temperature : 40°C

POWER : 21.4 W

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Tested by: Jamie Lin

Item 1: **Capacitors**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 11.60244038 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 2: **Diodes**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 4.019902133 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 3: **Inductors**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 2.508372859 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 4: **Integrated Circuits**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 177.9368508 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 5: **Resistors, Fixed**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 39.78 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 6: **Transistors**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 14.56430908 \quad \text{Failure/ } 10^9 \text{ hours}$$

Item 7: **Miscellaneous Device**

$$\lambda_{SS} = \sum_{i=1}^m \pi E \lambda_{ssi} = 0.40 \quad \text{Failure/ } 10^9 \text{ hours}$$

Total λ_{SS}=	250.8118752	Failure/ 10^9 hours
	250.81	FIT
MTBF=	3987052.045	hours

NOT: FIT=Failures In Time
=Failures in 10^9 hours