

Reliability Prediction

- I. Date:** 2018-10-08
- II. Model Name:** DS-2XM6726FWD-I(S)(M)
- III. Revision:** N/A
- IV. Equipment:** Windchill Quality Solutions
- V. Calculation Method:** GJB 299C Parts Count

VI. Prediction Result:

MTBF: >100,000 hours

MTBF(Mean Time Between Failures) for this product is estimated by the failure rate of each components under 25°C ambient temperature, and the total value is obtained according to the following formula.

$$MTBF = \frac{1}{\sum_{i=1}^n N_i \lambda_{Gi} \pi_{Qi}}$$

λ_{Gi} - General Failure Rate specified for component 'i'

π_{Qi} - General Quality Coefficient specified for component 'i'

N_i - Total number of components of type 'i'

n - Total number of all equipment components