

Reliability Prediction

I. Date: 2020-05-20

II. Model Name: DS-2XM6736G0-I(D)(M)/(ND)

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