

Reliability Prediction

MTBF Report

Model name : QSFP28-SR4-100G

General Description

The following MTBF Prediction is based on Telcordia SR-332. The calculation was made on the QSFP28 transceiver 100G SR4 at 55°C temperature of 60% confidence level.

Parameter	Calculated value	
	Data	Unit
Wear-out Failure Analysis		
Wear-Out Failure Rate @ 25°C, 5yrs	<1	FIT
Wear-Out Failure Rate @ 25°C, 10yrs	<1	FIT
Wear-Out Failure Rate @ 25°C, 15yrs	<1	FIT
Wear-Out Failure Rate @ 25°C, 20yrs	<1	FIT
Wear-Out Failure Rate @ 25°C, 25yrs	<1	FIT
Random Failure Analysis (Module Level)		
Operation Temperature (°C)	55	
Random Failure Rate (60% CL, FITs)	264.44	
MTTF, 60% CL, (Hours)	3781576	