

MTBF Report

The following predicted failure rate is calculated in accordance to [UTE C 80-810 standard](#),

- Base on general product mission profile as follow, and the product is operated within specification throughout product life cycle
- **The calculated MTBF > 131400 hours (15 years), equivalent to 1.5 times product operating life, is considered having sufficient reliability margin throughout product life time**

(I) Mission Profile

	Continous Operation	Intermittent Operation
Product Ambient Temperature	30°C	30°C
Product Internal Temperature	40°C	40°C
Product Operating Rate	100% Operating Through Lifetime	46% Operating Through Lifetime
Product Power Off Cycles	12 times / year	335 times / year
Subject to Climatic Cycles During Stocking Period	+/- 8°C	+/- 15°C

(II) This table shows the list of product references with its associated predicted failure rate as well as its MTBF information

No	Product References	Failure Rate (10 ⁻⁰⁹ Failures Per Hour)		MTBF (hr)	
		Continous Operation	Intermittent Operation	Continous Operation	Intermittent Operation
		λ @ 40°C (10 ⁻⁹ /hr)	λ @ 40°C (10 ⁻⁹ /hr)	MTBF @ 40°C (hr)	MTBF @ 40°C (hr)
1	XVUC020	60.79000	67.00000	16450074	14925373
2	XVUC020Q	60.79000	67.00000	16450074	14925373
3	XVUC21B	60.79000	67.00000	16450074	14925373
4	XVUC21BQ	60.79000	67.00000	16450074	14925373
8	XVUC23	10.77000	12.64000	92850511	79113924
9	XVUC24	10.77000	12.64000	92850511	79113924
10	XVUC25	10.77000	12.64000	92850511	79113924
11	XVUC26	10.77000	12.64000	92850511	79113924
12	XVUC27	10.77000	12.64000	92850511	79113924
13	XVUC28	10.77000	12.64000	92850511	79113924
14	XVUC29	192.95000	263.38000	5182690	3796796
15	XVUC29P	168.14300	165.64500	5947319	6037007
16	XVUC43	90.60000	55.58000	11037528	17992083
17	XVUC44	90.60000	55.58000	11037528	17992083
18	XVUC45	90.60000	55.58000	11037528	17992083
19	XVUC46	90.60000	55.58000	11037528	17992083
20	XVUC47	90.60000	55.58000	11037528	17992083
21	XVUC48	90.60000	55.58000	11037528	17992083
22	XVUC9S	75.06000	114.83000	13322675	8708526
23	XVUC9SQ	75.06000	114.83000	13322675	8708526
24	XVUC9V	277.55700	327.02300	3602864	3057889
25	XVUC9VP	277.53700	327.00300	3603123	3058076