## Reliability Monitoring Results

## nexperia

Quarters: Q1/2021 to Q4/2021
Based on structural similarity


Calculation of PPM, FIT and MTTF
Test considered for PPM calculation: High Temperature Operating LifeTest Extrinsic (HTOL EFR, Test \# 5a above) Test considered for FIT and MTTF calculations: High Temperature Operating LifeTest Intrinsic(HTOL IFR, Test \# 5b above)
Confidence level $60 \%$, derated to $55^{\circ} \mathrm{C}$, activation energy 0.7 eV , test time 168 to 1000 hours

| Product <br> Family | Package <br> Family | Quantity | Rejects | Extrinsic <br> Failure Rate (PPM) | Intrinsic <br> Failure Rate (FIT) | MTTF (hrs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LVC | DHVQFN | 9791 | 0 | 18 | 0.5 | $2.22 \mathrm{E}+09$ |

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