# PEAL Radiation Testing in 2025

- Preliminary test results shared at NEPP ETW 2025
- Radiation test reports will be uploaded in the GSFC Radiation Database and JPL external radiation database (in work)

MOSFETs:

| PART NUMBER | MANUFACTURER | DESCRIPTION |
|---|---|---|
| AUIRFP4568-E | Infineon | MOSFET N-CH 150V 171A TO247AD |
| BUK9875-100A | Nexperia | N-Ch; SOT-223-3 |
| DMN24H11DSQ-13 | Diodes Inc. | N-Ch; SOT-23-3 |
| DMP10H400SEQ-13 | Diodes Inc. | P-Ch; SOT-223-3 |
| DMP3098LQ-7 | Diodes Inc. | P-Ch; SOT-23-3 |
| PMV100EPA | Nexperia | P-Ch; SOT23 |
| PMV19XNEAR | Nexperia | N-Ch; SOT23 |
| SQ1431EH | Vishay | P-Ch TrenchFET; SC-70 |
| SQ1470AEH | Vishay | N-Ch TrenchFET; SC-70 |
| SQ2308FES | Vishay | N-Ch TrenchFET; SOT-23 |
| SQ2309CES | Vishay | P-Ch TrenchFET; SOT-23 |
| SQ2325ES | Vishay | P-Ch TrenchFET; SOT-23 |
| SQ4080EY | Vishay | N-Ch TrenchFET; SO-8 |
| SQD10950E_GE3 | Vishay | MOSFET N-CH 250V 11.5A TO252AA |
| SQD25N15-52_GE3 | Vishay | MOSFET N-CH 150V 25A TO252 |
| SQD40P10-40L | Vishay | P-Ch TrenchFET; TO-252 |
| SQD50N10-8m9L | Vishay | N-Ch TrenchFET; TO-252 |
| SQJA20EP | Vishay | N-Ch, 200 V 22.5A 68W SO-8 |
| SQM90142E_GE3 | Vishay | MOSFET N-CH 200V 95A TO263 |

Microcircuits:

| PART NUMBER | MANUFACTURER | DESCRIPTION |
|---|---|---|
| 1EDB8275F | Infineon | Isolated gate-driver |
| AD431TRZ-EP | ADI | Enhanced Product Voltage Reference |
| ADP223 | ADI | Dual LDO |
| ADP5140 | ADI | Automotive PMIC |
| ADRF5040 | ADI | High isolation SP4T switch |
| ADuM4120 | ADI | Isolated gate driver |
| ADuM4121 | ADI | HV isolated gate driver |
| ADuM4195 | ADI | Isolated amplifier |
| ATSAMD51P20A | Atmel/Microchip | 32-bit Cortex M4F MCU |
| ATSAMV71Q21B | Atmel/Microchip | 32-bit Cortex-M7 MCU |
| EM064LX/EM128LX HR | Everspin | STT-MRAM Memory |
| LAN9252 | Microchip | EtherCAT controller with dual PHYs |
| LMR51450SDRR | TI | Step-down converter |
| LT3061 | ADI | Low power LDO |
| LT8300 | ADI | Low power flyback converter |
| LT8625S | ADI | 18V/8A Step-Down Silent Switcher |
| LT8627SP | ADI | 18V/16A Step-Down Silent Switcher |
| LT8641A | ADI | Step-down regulator |
| LT8645S | ADI | 65V, 8A Step-Down Silent Switcher |
| LT8650S | ADI | Dual Channel 4A, 42V, Synchronous Step-Down Silent Switcher |
| LTC4366 | ADI | HV surge stopper |
| MCP16367 | Microchip | 48V step-down buck converter |
| MT29F16G08ABACAWP-AAT:C TR | Micron | NAND Flash Memory |
| PIC32CX | Microchip | 32-bit Cortex M4F MCU |
| RHP51000 | ADI | 20V, 500mA, Ultralow Noise, Ultrahigh PSRR Linear Regulator |
| RHP51001 | ADI | 3A, 0.95-10V, Very Low Dropout Linear Regulator, Current Limit |
| S32K31 | NXP | 32-bit Automotive MCU with Cortex M7 |
| SPC58NG84E7 | Infineon | 32-bit Power Architecture MCU, Automotive |
| TPS650330-Q1 | TI | Automotive PMIC (buck converters + LDO) |
| TPS7H4003-SEP | TI | Step-down converter |
| TPS7H4010-SEP | TI | Step-down converter |
| LT1498xxx | ADI | Dual Op Amp |
| LT3080EST#WPBF | ADI | LDO Regulator, Adj. |
| rMOR/cMOR | Crane | Commercial / Commercial Space DC/DC Converters |