Discrete QPL nomenclature

<table>
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<th>JAN</th>
<th>S</th>
<th>R</th>
<th>2N</th>
<th>YYYY</th>
<th>T1</th>
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**Joint Army Navy brand**

**Quality level**

- **TX**: Screened per MIL-PRF-19500 standard tests, plus TX process and power conditioning tests
- **TXV**: Screened to JANTX and a visual inspection
- **S**: Screened to JANTXV, plus PIND, serialization, failure analysis, and traceability to a wafer lot

**Radiation hardness assurance (RHA)**

- **RHA designation**
  - Blank = Not rated
  - **R** = $1 \times 10^5$ (100 krad)
  - **F** = $3 \times 10^5$ (300 krad)
  - **G** = $5 \times 10^5$ (500 krad)
  - **H** = $1 \times 10^6$ (1 Mrad)

**Component designation**

- **1N**: Rectifiers
- **2N**: Transistors

**Identification number**

- **YYYY**: JEDEC assigned number

**Suffix letters**

- **Package type**
  - **T1** = TO-254
  - **T2** = TO-205AF
  - **T3** = TO-257
  - **T8** = TO-258AA
  - **U1** = SMD-1
  - **U2** = SMD-2
  - **U2A** = SupiR-SMD™
  - **U2S** = SMD-2 (TO-276AC) with carrier board option
  - **U2L** = SMD-2 (TO-276AC) with lead option
  - **U3** = SMD-0.5
  - **U3C** = SMD-0.5, ceramic lid
  - **U3CE** = SMD-0.5 enhanced, ceramic lid
  - **U5** = LCC 16-20 pin
  - **U6** = LCC 28 pin
  - **U8** = SMD-0.2
  - **U8C** = SMD-0.2, ceramic lid
  - **U8CE** = SMD-0.2 enhanced, ceramic lid
  - **D1** = TO-254, no tab and surface mount lead formed
  - **D3** = TO-257, no tab and surface mount lead formed
  - **D4** = TO-254, no tab
  - **D5** = TO-257, no tab
  - **UA** = LCC 4 or 6-pads
  - **UAC** = LCC 4 or 6-pads with a ceramic lid
  - **UB** = LCC 4-pads
  - **UBN** = LCC 3-pads with an isolated lid
  - **UBC** = LCC 4-pads with a ceramic lid
  - **UBCN** = LCC 3-pads with a ceramic isolated lid

**Package outline**

- **TO-254**: Standard TO-254 package
- **TO-205AF**: Standard TO-205AF package
- **TO-257**: Standard TO-257 package
- **TO-258AA**: Standard TO-258AA package
- **SMD-1**: Standard SMD-1 package
- **SMD-2**: Standard SMD-2 package
- **SupiR-SMD™**: SupiR-SMD™ package
- **SMD-2 (TO-276AC)**: SMD-2 with carrier board option
- **SMD-2 (TO-276AC) with lead option**: SMD-2 with lead option
- **SMD-0.5**: Standard SMD-0.5 package
- **SMD-0.5, ceramic lid**: SMD-0.5 with ceramic lid
- **SMD-0.5 enhanced, ceramic lid**: SMD-0.5 enhanced with ceramic lid
- **LCC 16-20 pin**: LCC 16-20 pin package
- **LCC 28 pin**: LCC 28 pin package
- **SMD-0.2**: Standard SMD-0.2 package
- **SMD-0.2, ceramic lid**: SMD-0.2 with ceramic lid
- **SMD-0.2 enhanced, ceramic lid**: SMD-0.2 enhanced with ceramic lid
- **TO-254, no tab and surface mount lead formed**: TO-254 with no tab and surface mount lead formed
- **TO-257, no tab and surface mount lead formed**: TO-257 with no tab and surface mount lead formed
- **TO-254, no tab**: TO-254 with no tab
- **TO-257, no tab**: TO-257 with no tab
- **LCC 4 or 6-pads**: LCC 4 or 6-pads package
- **LCC 4 or 6-pads with a ceramic lid**: LCC 4 or 6-pads with ceramic lid
- **LCC 4-pads**: LCC 4-pads package
- **LCC 3-pads with an isolated lid**: LCC 3-pads with isolated lid
- **LCC 4-pads with a ceramic lid**: LCC 4-pads with ceramic lid
- **LCC 3-pads with a ceramic isolated lid**: LCC 3-pads with ceramic isolated lid
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