

MIL-PRF-38535 Device Part Numbers and Class Levels

| Example Device Marking Options | Device Class Designator in PIN ^{1/} | Potential device class ^{2/} | Equivalent Class Level ^{3/} | Device Certification Mark ^{4/} | Listing Location | Test Optimization |
|------------------------------------|--|--------------------------------------|---|---|--------------------------------|---------------------------|
| 5962-9912301MXX | M | M | Level B, Self Certification, Meets requirements of 5004 and 5005, No TRB | "C" | MIL-HDBK-103 | No |
| | | Q | Level B, Certified and Qualified, Has TRB | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | Yes |
| 5962-9912401QXX or M38510/12301BXX | Q or B | Q | Level B, Certified and Qualified, Has TRB | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | Yes |
| 5962-9912501VXX or M38510/12301SXX | V or S | V | Level S, Meets QML Requirements and Appendix B of MIL-PRF-38535, Has TRB | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | Yes |
| 5962-9912301XX or 8502501XX | No Marking Level Designator | M | Level B, Self Certification, Meets requirements of 5004 and 5005, No TRB | "C" | MIL-HDBK-103 | No |
| | | Q or B | Level B, Certified and Qualified, Has TRB | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | Yes |
| 5962-9912301TXX | T | T | For satellite applications, Certified and qualified manufacturer, Has TRB, manufacturer's testing flow specified in Class T QM plan | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | See QM Plan ^{5/} |
| 5962-99121301NXX | N | N (PEMs Only) | Appropriate requirements for plastic encapsulated microcircuits | "Q" or "QML" | QML Section 1 and MIL-HDBK-103 | Yes |

^{1/} PIN - Part Identification Number. Note that QML Class level B (Q or B) product is DSCC certified and qualified product and is a higher reliability level than 883 Class level B (Class M) which requires self certification with a DSCC verification audit.

Device Class Designator: A single letter used in the part number to identify the quality assurance level of the part.

M = MIL-STD-883 1.2.1 compliant (MIL-PRF-38535, appendix A), meets 5004 and 5005.

Q = B = Meets all of the requirements of MIL-PRF-38535, class level B, including qualification, screening, and TCI/QCI inspections.

V = S = Meets all of the requirements of MIL-PRF-38535 and appendix B, class level S.

N = Meets all of the requirements of MIL-PRF-38535, class level N, including qualification, screening, and TCI/QCI inspections as applicable in MIL-PRF-38535, and are encapsulated in plastic.

^{2/} Potential device class that the device could be built to: This does not necessarily reflect what the device class designator is.

^{3/} The class level is used to differentiate between non-space level = B, and space level = S requirements.

Class level B - Meets the requirements of 5004 and 5005, Class B, as defined in MIL-STD-883.

Class level S - Meets the requirements of 5004 and 5005, Class S, as defined in MIL-STD-883.

^{4/} To determine if a part is QML'd in MIL-HDBK-103, look in the "QML Source" column for a "Y".

To determine the device class, the certification mark has to be identified. Devices with a 'Q or QML' mark are higher reliability parts.

The device class cannot be determined by part number only.

^{5/} Screening and QCI are defined in the manufactures QM Plan. This flow is under document control, changes require DSCC qualifying activity approval.