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DEPARTMENT OF DEFENSE
HANDBOOK
LIST OF STANDARD MICROCIRCUIT DRAWINGS



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as a requirement.

AMSC N/A

FSC 5962

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FOREWORD

1. This handbook is approved for use by all Departments and Agencies of the Department of Defense.
2. This handbook is for guidance only. This handbook cannot be cited as a requirement. If it is, the contractor does not have to comply.
3. The proliferation of industry prepared drawings for the same part used in a variety of military applications has become an ever increasing item of expense to the DoD. Numerous situations have arisen where one military acquisition document would be more appropriate and cost effective than the multiplicity of contractor prepared drawings. Standard Microcircuit Drawings (SMDs) are being prepared to eliminate the need for the multitude of contractor prepared drawings for the same device when the minimum requirements of SMD's are sufficient to meet the requirements of the application on an interim or permanent basis.
4. Comments, suggestions, or questions on this document should be addressed to: Commander, DLA Land and Maritime, ATTN: VAS, 3990 East Broad St., Columbus, OH 43218-3990, or emailed to linear@dlam.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST online database at <https://assist.dla.mil>.

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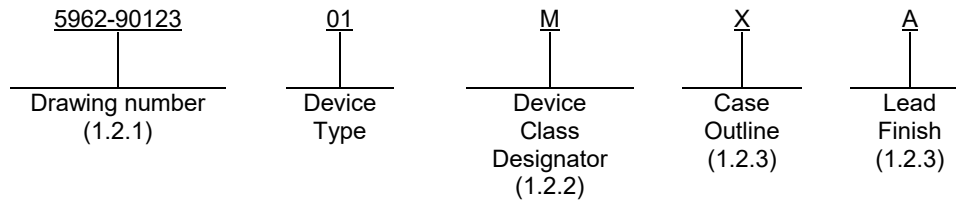
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1. SCOPE

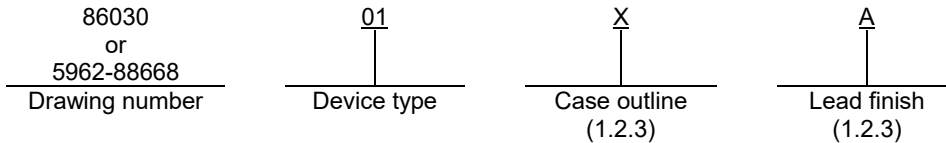
1.1 Purpose. The Standard Microcircuit Drawing Program (SMDP) is directly under the auspices of the DoD Parts Management Program (PMP). The PMP is implemented by MIL-HDBK-512, "Parts Management." The PMP will be the avenue for screening candidate parts for the SMDP by the DLA Land and Maritime Military Parts Control Advisory Group (MPCAG).

1.2 Part or Identifying number (PIN). The PIN's listed in section 1, part I, are composed of the elements shown in the following example (see 1.2.2 for one part - one part number differentiation):

One part - one part number PIN



Non - one part - one part number PIN



1.2.1 Drawing number. One part - one part number SMD's for device classes Q, V, H, and K may cover custom device products which are generally used to specify application specific integrated circuits (both monolithic and hybrid). To differentiate between one part - one part number SMD's that cover standard product from custom product a single alpha character will be placed in the unique 3 digit portion of the SMD drawing number as in the following example: 5962-90A23. This will be the only change to the SMD PIN for custom products.

1.2.2 Device class designator. One part - one part number SMD's (fully implemented after SMD 5962-90659) contain device requirements for all three of the major military microcircuit requirements documents. By establishing a one part number system covering all three documents, the OEM can acquire to the highest level available for a given generic device to meet system needs without modifying the original contract parts selection criteria.

| Military documentation format | Example PIN | Manufacturing source listing | Document listing |
|---|------------------------------|------------------------------|------------------|
| New MIL-PRF-38535 Standard Microcircuit Drawings | 5962-XXXXXZZ(Q,V,T or N)YY | QML-38535 | MIL-HDBK-103 |
| New MIL-PRF-38534 Standard Microcircuit Drawings | 5962-XXXXXZZ(H,K,D,G or E)YY | QML-38534 | MIL-HDBK-103 |
| New 1.2.1 of MIL-STD-883 Standard Microcircuit Drawings, based on Appendix A of MIL-PRF-38535 | 5962-XXXXXZZ(M)YY | MIL-HDBK-103 | MIL-HDBK-103 |

This handbook is for guidance only and cannot be cited as a requirement.

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1.2.3 Case outline/lead finish. Case outline and lead finish are as described in each SMD. The lead finish indicated in the section 1 Part I listing is the most readily available from the manufacturer listed for the part. The manufacturer is authorized to supply other lead finishes than what is listed provided that further testing/qualification is performed by the manufacturer on the other lead finish(es). The user needs to contact the manufacturer to determine the availability of other lead finishes not listed herein.

1.2.4 Substitutability. Device-class-Q devices will replace device-class-M devices.

2. APPLICABLE DOCUMENTS This section is not applicable to the handbook.

3. DEFINITIONS This section is not applicable to the handbook.

4. REQUIREMENTS

4.1 Drawing requirements. SMD's will be prepared in accordance with ASME Y14.100 and DOD directives.

4.2 Preparation procedures. The procedures for the generation of an SMD are provided in MIL-HDBK-780.

4.3 Drawing effectivity and duration. SMD's and device class M one part - one part number SMDs which have become inactive for new design are reflected in section 1, part 1 of the appendix of this document with an "I" in the status column.

4.4 Approved sources of supply. The approved sources of supply list in this handbook supersedes the approved sources formerly listed in each individual SMD/DLA Land and Maritime Drawing. This handbook is the official list of approved sources of supply for non-one part - one part number SMD PIN's and for device class M one part - one part number SMD PIN's. Device classes B, S, Q, V, T, N (monolithic) and H, K, D, G, E (hybrid) one part - one part number SMD PIN's are listed for the convenience of the users. Official listing for B, S, Q, V, T, N, H, K, D, G, and E levels are available in the applicable QML. Manufacturers should notify DLA Land and Maritime-VA in writing if they no longer wish to be listed as an approved source of supply for any device listed herein. This letter will be used by DSCC to remove the manufacturer from MIL-HDBK-103 for those devices that the manufacturer specifies that he will no longer supply.

4.5 Radiation hardness assurance (RHA) levels. SMD devices which meet the RHA requirements of MIL-PRF-38535 or MIL-PRF-38534 will be marked with the appropriate RHA designator M, D, P, L, R, F, G, or H replacing the dash (-) in the PIN as indicated in the following example:

5962(M, D, P, L, R, F, G, or H)8999901EA

Only the highest RHA level for which the device is qualified will be listed in Section 1, Part I of the appendix of this document; however, at the request of the customer, the manufacturer is authorized to supply any lower RHA level device. At the request of the customer, the non-RHA PIN designated with a dash (-) may be supplied at the option of the manufacturer. The manufacturer may also opt to submit a certificate of compliance to have the non-RHA PIN listed in addition to the RHA PIN in Section 1, Part I of the appendix of this document.

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4.6 Electrostatic discharge sensitivity (ESD) listing. ESD classification levels, as required by MIL-PRF-38534 or MIL-PRF-38535, will be listed in the status column of section 1, part 1, of the appendix. Manufacturers are required to send these classification levels to DLA Land and Maritime-VA for all Standard Microcircuit Drawings for which they are an approved source. The ESD listing in section 1, part 1 of the appendix will be in accordance with the following:

| <u>STATUS</u> | <u>INTERPRETATION</u> |
|---------------|----------------------------|
| Blank | Data not submitted |
| 0 | Class 0; < 250 V |
| 1 | Class 1; 0 – 1999 V |
| 1A | Class 1A; 250 V – 499 V |
| 1B | Class 1B; 500 V – 999 V |
| 1C | Class 1C; 1,000 V – 1999 V |
| 2 | Class 2; 2000 V – 3999 V |
| 3 | Class 3; ≥ 4000 V |
| 3A | Class 3A; 4000 V – 7999 V |
| 3B | Class 3B; ≥ 8000 V |

5. CONFIGURATION MANAGEMENT

5.1 Configuration management of SMDs. All proposed changes to existing SMDs will be coordinated with the military activities and industry users of record for the individual documents. This coordination will be accomplished using DD Form 1693, Engineering Change Proposal (Short Form).

5.2 Record of users. Industrial users should inform DLA Land and Maritime when a system application requires use of the SMD. When notified, DLA Land and Maritime will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DLA Land and Maritime-VAC, telephone (614) 692-8108.

6. DISTRIBUTION AND REQUESTS

6.1 Distribution. Requests for individual drawings and revisions to existing drawings may be addressed to:

DLA Land and Maritime
ATTN: VAC
3990 E. Broad Street
Columbus, OH 43218-3990
Autovon 850-0547
Commercial (614) 692-0547

6.1.1 Automatic distribution. To be added to a mailing list for automatic distribution of new drawings and revisions to existing drawings requests may be addressed to:

DLA Land and Maritime
ATTN: VAS
3990 E. Broad Street
Columbus, OH 43218-3990
Autovon 850-8478
Commercial (614) 692-8478

6.1.2 Electronic distribution. Electronic copies of Standard Microcircuit Drawings are available on the World Wide Web at <https://landandmaritimeapps.dla.mil/Programs/MilSpec>.

6.2 Requests. Requests for copies may be available online at <https://quicksearch.dla.mil>.

7. NOTES

7.1 Intended use. This list has been prepared for use by or for the Government in the acquisition of products covered by SMDs. Listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. This listing supersedes the approved source of supply listing in the individual Standard Microcircuit Drawings, however the listing of a product does not release the supplier from compliance with the SMD requirements.

7.2 Subject item (key word) listing.

Part or identifying number (PIN)
Drawing number
Device class designator
Drawing requirements
Preparation procedures
Drawing effectivity and duration
Approved sources of supply
Radiation hardness assurance (RHA) levels
Electrostatic discharge sensitivity (ESD) listing
Configuration management of SMDs
Noun code descriptions

7.3 Changes from previous issue. Marginal notations are not used in this revision to identify Changes with respect to the previous issue due to the extent of the changes.

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|---|
| 100 | MICROCIRCUIT, POSITIVE-NAND GATES, QUAD 2-INPUT |
| 101 | MICROCIRCUIT, POSITIVE-NAND GATES, QUAD 2-INPUT, OPEN COLLECTOR OUTPUTS |
| 102 | MICROCIRCUIT, POSITIVE-NAND GATES, TRIPLE 3-INPUT |
| 103 | MICROCIRCUIT, POSITIVE-NAND GATES, TRIPLE 3-INPUT, OPEN COLLECTOR OUTPUTS |
| 104 | MICROCIRCUIT, POSITIVE-NAND GATES, DUAL 4-INPUT |
| 105 | MICROCIRCUIT, POSITIVE-NAND GATES, DUAL 4-INPUT, OPEN COLLECTOR OUTPUTS |
| 106 | MICROCIRCUIT, POSITIVE-NAND GATES, SINGLE 8-INPUT |
| 107 | MICROCIRCUIT, POSITIVE-NAND GATES, SINGLE 8-INPUT, EXPANDABLE |
| 108 | MICROCIRCUIT, POSITIVE-NAND GATES (GREATER THAN 8-INPUT) |
| 109 | MICROCIRCUIT, POSITIVE-NAND GATES, NOT OTHERWISE CLASSIFIED |
| 110 | MICROCIRCUIT, POSITIVE-AND GATES, QUAD 2-INPUT |
| 111 | MICROCIRCUIT, POSITIVE-AND GATES, QUAD 2-INPUT, OPEN COLLECTOR OUTPUTS |
| 112 | MICROCIRCUIT, POSITIVE-AND GATES, TRIPLE 3-INPUT |
| 113 | MICROCIRCUIT, POSITIVE-AND GATES, TRIPLE 3-INPUT, OPEN COLLECTOR OUTPUTS |
| 114 | MICROCIRCUIT, POSITIVE-AND GATES, DUAL 4-INPUT |
| 115 | MICROCIRCUIT, POSITIVE-AND GATES, DUAL 4-INPUT, OPEN COLLECTOR OUTPUTS |
| 119 | MICROCIRCUIT, POSITIVE-AND GATES, N.O.C. |
| 120 | MICROCIRCUIT, POSITIVE-NOR GATES, QUAD 2-INPUT |
| 121 | MICROCIRCUIT, POSITIVE-NOR GATES, QUAD 2-INPUT, OPEN COLLECTOR OUTPUTS |
| 122 | MICROCIRCUIT, POSITIVE-NOR GATES, TRIPLE 3-INPUT |
| 123 | MICROCIRCUIT, POSITIVE-NOR GATES, DUAL 4-INPUT |
| 124 | MICROCIRCUIT, POSITIVE-NOR GATES, N.O.C. |
| 125 | MICROCIRCUIT, POSITIVE-OR GATES |
| 130 | MICROCIRCUIT, AND-OR-INVERT GATES, DUAL 2-WIDE |
| 131 | MICROCIRCUIT, AND-OR-INVERT GATES, 4-WIDE |
| 132 | MICROCIRCUIT, AND-OR-INVERT GATES, 2-WIDE |
| 133 | MICROCIRCUIT, AND-OR-INVERT GATES, DUAL 2-WIDE, EXPANDABLE |
| 134 | MICROCIRCUIT, AND-OR-INVERT GATES, 4-WIDE, EXPANDABLE |
| 135 | MICROCIRCUIT, AND-OR-INVERT GATES, 2-WIDE, EXPANDABLE |
| 139 | MICROCIRCUIT, AND-OR-INVERT GATES, N.O.C. |
| 140 | MICROCIRCUIT, EXCLUSIVE-OR GATES |
| 141 | MICROCIRCUIT, EXCLUSIVE-NOR GATES |
| 142 | MICROCIRCUIT, OR-AND GATES |
| 143 | MICROCIRCUIT, HEX INVERTERS |
| 144 | MICROCIRCUIT, HEX INVERTERS, OPEN COLLECTOR |
| 145 | MICROCIRCUIT, EXPANDERS |
| 149 | MICROCIRCUIT, LOGIC GATES, N.O.C. |
| 150 | MICROCIRCUIT, FLIP FLOPS, AND-GATED, SINGLE J-K FLIP FLOP |
| 151 | MICROCIRCUIT, FLIP FLOPS, AND-OR-GATED, SINGLE J-K FLIP FLOP |
| 152 | MICROCIRCUIT, FLIP FLOPS, DUAL J-K (2-COMpletely INDEPENDENT CIRCUITS) |
| 153 | MICROCIRCUIT, FLIP FLOPS, DUAL J-K (ONE OR MORE COMMON INPUTS) |
| 154 | MICROCIRCUIT, FLIP FLOPS, AND-GATED, SINGLE J-K, NEGATIVE EDGE TRIGGERED FLIP FLOP |
| 155 | MICROCIRCUIT, FLIP FLOPS, AND-OR-GATED, SINGLE AND NEGATIVE EDGE TRIGGERED FLIP FLOP |
| 156 | MICROCIRCUIT, FLIP FLOPS, DUAL J-K, NEGATIVE EDGE TRIGGERED FLIP FLOP (INDEPENDENT CIRCUIT) |
| 157 | MICROCIRCUIT, FLIP FLOPS, DUAL J-K, NEGATIVE EDGE TRIGGERED FLIP FLOP (ONE OR MORE COMMON INPUTS) |
| 158 | MICROCIRCUIT, FLIP FLOPS, SINGLE OR DUAL D-TYPE |
| 159 | MICROCIRCUIT, FLIP FLOPS, QUAD OR HEX D-TYPE |
| 160 | MICROCIRCUIT, FLIP FLOPS, R-S |
| 161 | MICROCIRCUIT, FLIP FLOPS, AC COUPLED |
| 164 | MICROCIRCUIT, FLIP FLOPS, N.O.C. |
| 165 | MICROCIRCUIT, MULTIVIBRATORS, SINGLE |
| 166 | MICROCIRCUIT, MULTIVIBRATORS, DUAL |
| 167 | MICROCIRCUIT, MULTIVIBRATORS, VOLTAGE CONTROLLED |
| 169 | MICROCIRCUIT, MULTIVIBRATORS, N.O.C. |
| 180 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPST, 1 CHANNEL |
| 181 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPST, 2 CHANNEL |
| 182 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPST, 3 CHANNEL |
| 183 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPST, 4 CHANNEL |
| 184 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPST, 5 CHANNEL |
| 185 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPDT, 1 CHANNEL |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 186 | MICROCIRCUIT, ANALOG GATES/SWITCHES, SPDT, 2 CHANNEL |
| 187 | MICROCIRCUIT, ANALOG GATES/SWITCHES, DPST, 1 CHANNEL |
| 188 | MICROCIRCUIT, ANALOG GATES/SWITCHES, DPST, 2 CHANNEL |
| 189 | MICROCIRCUIT, ANALOG GATES/SWITCHES, DPST, 3 CHANNEL |
| 190 | MICROCIRCUIT, ANALOG GATES/SWITCHES, DPDT |
| 191 | MICROCIRCUIT, ANALOG GATES/SWITCHES, 4 PST |
| 192 | MICROCIRCUIT, ANALOG GATES/SWITCHES, 4-CHANNEL DIFF MULTIPLEXER |
| 193 | MICROCIRCUIT, ANALOG GATES/SWITCHES, 8-CHANNEL MULTIPLEXER |
| 194 | MICROCIRCUIT, ANALOG GATES/SWITCHES, 8-CHANNEL DIFF MULTIPLEXER |
| 195 | MICROCIRCUIT, ANALOG GATES/SWITCHES, 16-CHANNEL MULTIPLEXER |
| 199 | MICROCIRCUIT, ANALOG GATES/SWITCHES, N.O.C. |
| 200 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ADDERS, SINGLE 1 BIT |
| 201 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ADDERS, SINGLE 2 BIT |
| 202 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ADDERS, SINGLE 4 BIT |
| 203 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ADDERS, DUAL 1 BIT |
| 204 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ADDERS, N.O.C. |
| 205 | MICROCIRCUIT, ARITHMETIC CIRCUITS, ALU FUNCTIONS GENERATORS |
| 206 | MICROCIRCUIT, ARITHMETIC CIRCUITS, LOOK-AHEAD CARRY GENERATORS |
| 207 | MICROCIRCUIT, ARITHMETIC CIRCUITS, TRUE/COMPLEMENT, ZERO/ONE ELEMENTS |
| 208 | MICROCIRCUIT, ARITHMETIC CIRCUITS, MULTIPLIERS, BINARY/RATE |
| 209 | MICROCIRCUIT, ARITHMETIC CIRCUITS, COMPARATORS |
| 210 | MICROCIRCUIT, ARITHMETIC CIRCUITS, PARITY GENERATORS/CHECKERS/PARITY TREES |
| 211 | MICROCIRCUIT, ARITHMETIC CIRCUITS, SUBTRACTORS |
| 217 | MICROCIRCUIT, ARITHMETIC CIRCUITS, CALCULATOR CIRCUITS |
| 218 | MICROCIRCUIT, ARITHMETIC CIRCUITS, CENTRAL PROCESSOR UNITS |
| 219 | MICROCIRCUIT, ARITHMETIC CIRCUITS, N.O.C. |
| 220 | MICROCIRCUIT, REGISTERS, 4 BIT, PARALLEL IN, PARALLEL OUT |
| 221 | MICROCIRCUIT, REGISTERS, 4 BIT, PARALLEL IN SERIAL OUT |
| 222 | MICROCIRCUIT, REGISTERS, 4 BIT, N.O.C. |
| 223 | MICROCIRCUIT, REGISTERS, 5 BIT |
| 224 | MICROCIRCUIT, REGISTERS, 8 BIT, PARALLEL IN PARALLEL OUT |
| 225 | MICROCIRCUIT, REGISTERS, 8 BIT, PARALLEL IN SERIAL OUT |
| 226 | MICROCIRCUIT, REGISTERS, 8 BIT, SERIAL IN PARALLEL OUT |
| 227 | MICROCIRCUIT, REGISTERS, 8 BIT, SERIAL IN SERIAL OUT |
| 228 | MICROCIRCUIT, REGISTERS, 8 BIT, N.O.C. |
| 229 | MICROCIRCUIT, REGISTERS, 9-15 BIT |
| 230 | MICROCIRCUIT, REGISTERS, 16 BIT |
| 231 | MICROCIRCUIT, REGISTERS, 17-31 BIT |
| 232 | MICROCIRCUIT, REGISTERS, 32 BIT |
| 233 | MICROCIRCUIT, REGISTERS, 33-63 BIT |
| 234 | MICROCIRCUIT, REGISTERS, 64 BIT |
| 235 | MICROCIRCUIT, REGISTERS, 65-127 BIT |
| 236 | MICROCIRCUIT, REGISTERS, 128 BIT |
| 237 | MICROCIRCUIT, REGISTERS, 129-255 BIT |
| 238 | MICROCIRCUIT, REGISTERS, 256 BIT |
| 239 | MICROCIRCUIT, REGISTERS, 257-511 BIT |
| 240 | MICROCIRCUIT, REGISTERS, 512 BIT |
| 241 | MICROCIRCUIT, REGISTERS, 513-1023 BIT |
| 242 | MICROCIRCUIT, REGISTERS, 1024 BIT |
| 243 | MICROCIRCUIT, REGISTERS, 1025-2047 BIT |
| 244 | MICROCIRCUIT, REGISTERS, 2048 BIT |
| 245 | MICROCIRCUIT, REGISTERS, 2049-4095 BIT |
| 246 | MICROCIRCUIT, REGISTERS, 4096 BIT |
| 247 | MICROCIRCUIT, REGISTERS, GREATER THAN 4096 BIT |
| 249 | MICROCIRCUIT, REGISTERS, N.O.C. |
| 260 | MICROCIRCUIT, CODE CONVERTERS, USACII TO EBCDIC (OR VICE VERSA) |
| 261 | MICROCIRCUIT, CODE CONVERTERS, USACII TO SELECTRIC |
| 262 | MICROCIRCUIT, CODE CONVERTERS, BINARY TO BCD (OR VICE VERSA) |
| 263 | MICROCIRCUIT, CODE CONVERTERS, HOLLERITH TO USACII |
| 269 | MICROCIRCUIT, CODE CONVERTERS, N.O.C. |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 270 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, 16-LINE-TO-1-LINE |
| 271 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, 8-LINE-TO-1-LINE |
| 272 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, 8-LINE-TO-1-LINE TRI-STATE OUTPUT |
| 273 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, DUAL 4-LINE-TO-1-LINE |
| 274 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, DUAL 4-LINE-TO-1-LINE TRI-STATE OUTPUT |
| 275 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, QUAD 2-LINE-TO-1-LINE |
| 276 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, QUAD 2-LINE-TO-1-LINE TRI-STATE OUTPUT |
| 279 | MICROCIRCUIT, DATA SELECTORS, MULTIPLEXERS, N.O.C. |
| 280 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, 4-LINE-TO-16-LINE |
| 281 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, 4-LINE-TO-10-LINE |
| 282 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, 3-LINE-TO-8-LINE |
| 283 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, DUAL 2-LINE-TO-4-LINE |
| 284 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, 1-LINE-TO-8-LINE |
| 289 | MICROCIRCUIT, DECODERS/DEMULTIPLEXERS, N.O.C. |
| 290 | MICROCIRCUIT, DISPLAY DECODERS/DRIVERS, BCD-TO-DECIMAL |
| 291 | MICROCIRCUIT, DISPLAY DECODERS/DRIVERS, BCD-TO-SEVEN SEGMENT |
| 292 | MICROCIRCUIT, DISPLAY DECODERS/DRIVERS, BCD-TO-DECIMAL WITH COUNTER/LATCH |
| 293 | MICROCIRCUIT, DISPLAY DECODERS/DRIVERS, BCD-TO-SEVEN SEGMENT WITH COUNTER LATCH |
| 299 | MICROCIRCUIT, DISPLAY DECODERS/DRIVERS, N.O.C. |
| 300 | MICROCIRCUIT, COUNTERS, BCD, ASYNCHRONOUS |
| 301 | MICROCIRCUIT, COUNTERS, BCD, SYNCHRONOUS |
| 302 | MICROCIRCUIT, COUNTERS, BCD, N.O.C. |
| 303 | MICROCIRCUIT, COUNTERS, BINARY, ASYNCHRONOUS |
| 304 | MICROCIRCUIT, COUNTERS, BINARY, SYNCHRONOUS |
| 305 | MICROCIRCUIT, COUNTERS, BINARY, N.O.C. |
| 306 | MICROCIRCUIT, COUNTERS, DECIMAL |
| 307 | MICROCIRCUIT, COUNTERS, RING |
| 308 | MICROCIRCUIT, COUNTERS, HEXADECIMAL |
| 309 | MICROCIRCUIT, COUNTERS, VARIABLE MODULO |
| 319 | MICROCIRCUIT, COUNTERS, N.O.C. |
| 320 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, ASCII FONT, RASTER-COLUMN SCAN |
| 321 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, ASCII FONT, RASTER-ROW SCAN |
| 322 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, CUSTOM, RASTER-COLUMN SCAN |
| 323 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, CUSTOM, RASTER-ROW SCAN |
| 324 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, NUMERIC |
| 329 | MICROCIRCUIT, CHARACTER GENERATORS, STATIC, N.O.C. |
| 330 | MICROCIRCUIT, CHARACTER GENERATORS, DYNAMIC, ASCII FONT |
| 331 | MICROCIRCUIT, CHARACTER GENERATORS, DYNAMIC, CUSTOM |
| 339 | MICROCIRCUIT, CHARACTER GENERATORS, DYNAMIC, N.O.C. |
| 340 | MICROCIRCUIT, LATCHES, 4-BIT |
| 341 | MICROCIRCUIT, LATCHES, 8-BIT |
| 342 | MICROCIRCUIT, LATCHES, N.O.C. |
| 345 | MICROCIRCUIT, PRIORITY ENCODERS |
| 350 | MICROCIRCUIT, PRESCALERS |
| 355 | MICROCIRCUIT, MSI/LSI MULTIPLE-FUNCTION CIRCUITS |
| 360 | MICROCIRCUIT, DIGITAL DELAY LINES |
| 365 | MICROCIRCUIT, GATE ARRAY, SEMICUSTOM |
| 366 | MICROCIRCUIT, LOGIC ARRAY, SEMICUSTOM |
| 367 | MICROCIRCUIT, STANDARD CELL ARRAY |
| 368 | MICROCIRCUIT, CELL ARRAY |
| 380 | MICROCIRCUIT, PROGRAMMABLE LOGIC DEVICE |
| 381 | MICROCIRCUIT, FIELD-PROGRAMMABLE GATE ARRAY |
| 399 | MICROCIRCUIT, DIGITAL CIRCUITS, N.O.C. |
| 400 | MICROCIRCUIT, MICROPROCESSORS, BIT/SLICE |
| 401 | MICROCIRCUIT, MICROPROCESSORS, 4-BIT |
| 402 | MICROCIRCUIT, MICROPROCESSORS, 8-BIT |
| 403 | MICROCIRCUIT, MICROPROCESSORS, 16-BIT |
| 404 | MICROCIRCUIT, MICROPROCESSORS, 32-BIT |
| 409 | MICROCIRCUIT, MICROPROCESSORS, NOC |
| 410 | MICROCIRCUIT, MICROCOMPUTERS, 8-BIT |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 411 | MICROCIRCUIT, MICROCOMPUTERS, 16-BIT |
| 412 | MICROCIRCUIT, MICROCOMPUTERS, 32-BIT |
| 419 | MICROCIRCUIT, MICROCOMPUTERS, NOC |
| 420 | MICROCIRCUIT, MICROPROCESSOR SUPPORT CIRCUITS, CONTROLLERS |
| 421 | MICROCIRCUIT, MICROPROCESSOR SUPPORT CIRCUITS, INPUT/OUTPUT/INTERFACE |
| 422 | MICROCIRCUIT, MICROPROCESSOR OR SUPPORT CIRCUITS, CLOCK GENERATORS |
| 423 | MICROCIRCUIT, DMA CONTROLLERS |
| 424 | MICROCIRCUIT, PROGRAMMABLE INTERVAL TIMER |
| 429 | MICROCIRCUIT, MICROPROCESSOR SUPPORT CIRCUITS, NOC |
| 430 | MICROCIRCUIT, MICROPROCESSOR MULTIPLIERS |
| 431 | MICROCIRCUIT, FIELD PROGRAMMABLE LOGIC ARRAYS (FPLA) |
| 432 | MICROCIRCUIT, DIGITAL SIGNAL PROCESSOR |
| 433 | MICROCIRCUIT, DATA ACQUISITION SYSTEM |
| 439 | MICROCIRCUIT, VLSI MICROPROCESSOR SPECIAL CIRCUIT, NOC |
| 440 | MICROCIRCUIT, MICROPROCESSOR CONVERTERS |
| 441 | MICROCIRCUIT, MANCHESTER ENCODERS |
| 449 | MICROCIRCUIT, LINEAR MICROPROCESSOR SUPPORT CIRCUITS, NOC |
| 450 | MICROCIRCUIT, ANALOG MICROPROCESSORS |
| 460 | OPTIC ISOLATORS/COUPLERS |
| 461 | SENSOR ARRAYS |
| 462 | MICROCIRCUIT, PHOTO DETECTOR |
| 500 | MICROCIRCUIT, BUFFERS/DRIVERS (TOTEM POLE, STD. VOLTAGE OUTPUT) NAND QUAD 2-INPUT |
| 501 | MICROCIRCUIT, BUFFERS/DRIVERS (TOTEM POLE, STD. VOLTAGE OUTPUT) NAND DUAL 4-INPUT |
| 502 | MICROCIRCUIT, BUFFERS/DRIVERS (TOTEM POLE, STD. VOLTAGE OUTPUT) AND |
| 503 | MICROCIRCUIT, BUFFERS/DRIVERS (TOTEM POLE, STD. VOLTAGE OUTPUT) NOR |
| 509 | MICROCIRCUIT, BUFFERS/DRIVERS (TOTEM POLE, STD. VOLTAGE OUTPUT) N.O.C. |
| 510 | MICROCIRCUIT, BUFFERS/DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) NAND |
| 511 | MICROCIRCUIT, BUFFERS/DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) AND |
| 512 | MICROCIRCUIT, BUFFERS DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) NOR |
| 513 | MICROCIRCUIT, BUFFERS DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) HEX |
| 514 | MICROCIRCUIT, BUFFERS DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) HEX INVERTER |
| 519 | MICROCIRCUIT, BUFFERS DRIVERS (OPEN-COLLECTOR, HIGH VOLTAGE OUTPUT) N.O.C. |
| 520 | MICROCIRCUIT, BUFFERS DRIVERS (TRI-STATE OUTPUT) QUAD |
| 521 | MICROCIRCUIT, BUFFERS DRIVERS (TRI-STATE OUTPUT) QUAD INVERTER |
| 522 | MICROCIRCUIT, BUFFERS DRIVERS (TRI-STATE OUTPUT) HEX |
| 523 | MICROCIRCUIT, BUFFERS DRIVERS (TRI-STATE OUTPUT) HEX INVERTER |
| 529 | MICROCIRCUIT, BUFFERS/DRIVERS (TRI-STATE OUTPUT) N.O.C. |
| 530 | MICROCIRCUIT, POWER DRIVERS (HIGH CURRENT IN "ON" STATE, HIGH VOLTAGE IN "OFF" STATE) NAND |
| 531 | MICROCIRCUIT, POWER DRIVERS (HIGH CURRENT IN "ON" STATE, HIGH VOLTAGE IN "OFF" STATE) OR |
| 532 | MICROCIRCUIT, POWER DRIVERS (HIGH CURRENT IN "ON" STATE, HIGH VOLTAGE IN "OFF" STATE) NOR |
| 533 | MICROCIRCUIT, POWER DRIVERS (HIGH CURRENT IN "ON" STATE, HIGH VOLTAGE IN "OFF" STATE) AND |
| 539 | MICROCIRCUIT, POWER DRIVERS, N.O.C. |
| 540 | MICROCIRCUIT, CMOS BUFFERS/CONVERTERS, HEX |
| 541 | MICROCIRCUIT, CMOS BUFFERS/CONVERTERS, HEX INVERTERS |
| 542 | MICROCIRCUIT, CMOS BUFFERS/CONVERTERS, QUAD |
| 544 | MICROCIRCUIT, CMOS BUFFERS/CONVERTERS, N.O.C. |
| 545 | MICROCIRCUIT, LOGIC-LEVEL CONVERTERS/TRANSLATORS, HIGH-TO-LOW OR VICE VERSA |
| 546 | MICROCIRCUIT, LOGIC-LEVEL CONVERTERS/TRANSLATORS, SATURATED-TO-ECL OR VICE VERSA |
| 547 | MICROCIRCUIT, LOGIC-LEVEL CONVERTERS/TRANSLATORS, TTL-TO-ECL OR VICE VERSA |
| 548 | MICROCIRCUIT, LOGIC-LEVEL CONVERTERS/TRANSLATORS, TTL-TO-MOS OR VICE VERSA |
| 549 | MICROCIRCUIT, LOGIC-LEVEL CONVERTERS/TRANSLATORS, N.O.C. |
| 550 | MICROCIRCUIT, MOS CLOCK DRIVERS |
| 555 | MICROCIRCUIT, FET SWITCH DRIVERS |
| 560 | MICROCIRCUIT, LINE/BUSS DRIVERS, NAND |
| 561 | MICROCIRCUIT, LINE/BUSS DRIVERS, NOR |
| 562 | MICROCIRCUIT, LINE/BUSS DRIVERS, DUAL, SINGLE OUTPUT |
| 563 | MICROCIRCUIT, LINE/BUSS DRIVERS, TRIPLE |
| 564 | MICROCIRCUIT, LINE/BUSS DRIVERS, DUAL, DIFFERENTIAL OUTPUT |
| 565 | MICROCIRCUIT, LINE/BUSS DRIVERS, TRI-STATE OUTPUT |
| 566 | MICROCIRCUIT, LINE/BUSS DRIVERS, TERMINATED |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 569 | MICROCIRCUIT, LINE/BUSS DRIVERS, N.O.C. |
| 570 | MICROCIRCUIT, LINE RECEIVERS, DUAL |
| 571 | MICROCIRCUIT, LINE RECEIVERS, TRIPLE |
| 572 | MICROCIRCUIT, LINE RECEIVERS, QUAD |
| 573 | MICROCIRCUIT, LINE RECEIVERS, DUAL DIFFERENTIAL INPUT |
| 574 | MICROCIRCUIT, LINE RECEIVERS, TRIPLE DIFFERENTIAL INPUT |
| 575 | MICROCIRCUIT, LINE RECEIVERS, QUAD DIFFERENTIAL INPUT |
| 579 | MICROCIRCUIT, LINE RECEIVERS, N.O.C. |
| 580 | MICROCIRCUIT, PERIPHERAL DRIVERS, DUAL POS-AND |
| 581 | MICROCIRCUIT, PERIPHERAL DRIVERS, DUAL POS-NAND |
| 582 | MICROCIRCUIT, PERIPHERAL DRIVERS, DUAL POS-OR |
| 583 | MICROCIRCUIT, PERIPHERAL DRIVERS, DUAL POS-NOR |
| 584 | MICROCIRCUIT, PERIPHERAL DRIVERS, MEMORY DRIVERS |
| 589 | MICROCIRCUIT, PERIPHERAL DRIVERS, N.O.C. |
| 590 | MICROCIRCUIT, LINE TRANSCEIVERS |
| 591 | MICROCIRCUIT, D/A CONVERTERS |
| 592 | MICROCIRCUIT, A/D CONVERTERS |
| 593 | MICROCIRCUIT, V/F, F/V CONVERTERS- |
| 594 | MICROCIRCUIT, CONVERTERS, N.O.C. |
| 599 | MICROCIRCUIT, INTERFACE CIRCUITS, N.O.C. |
| 600 | MICROCIRCUIT, READ-WRITE MEMORIES, 16-BIT (4X4), STATIC |
| 601 | MICROCIRCUIT, READ-WRITE MEMORIES, 16-BIT (16X1), STATIC |
| 602 | MICROCIRCUIT, READ-WRITE MEMORIES, 64-BIT (16X4), STATIC |
| 603 | MICROCIRCUIT, READ-WRITE MEMORIES, 64-BIT (64X1), STATIC |
| 604 | MICROCIRCUIT, READ-WRITE MEMORIES, 256-BIT (64X4), STATIC |
| 605 | MICROCIRCUIT, READ-WRITE MEMORIES, 256-BIT (64X4), DYNAMIC |
| 606 | MICROCIRCUIT, READ-WRITE MEMORIES, 256-BIT (256X1), STATIC |
| 607 | MICROCIRCUIT, READ-WRITE MEMORIES, 512-WORD, STATIC |
| 608 | MICROCIRCUIT, READ-WRITE MEMORIES, 1024-BIT, STATIC |
| 609 | MICROCIRCUIT, READ-WRITE MEMORIES, 1024-BIT, DYNAMIC |
| 610 | MICROCIRCUIT, READ-WRITE MEMORIES, 2048-BIT, STATIC |
| 611 | MICROCIRCUIT, READ-WRITE MEMORIES, 2048-BIT, DYNAMIC |
| 612 | MICROCIRCUIT, READ-WRITE MEMORIES, 4096-BIT, STATIC |
| 613 | MICROCIRCUIT, READ-WRITE MEMORIES, 4096-BIT, DYNAMIC |
| 614 | MICROCIRCUIT, READ-WRITE MEMORIES, 8192-BIT, STATIC |
| 615 | MICROCIRCUIT, READ-WRITE MEMORIES, 8192-BIT, DYNAMIC |
| 616 | MICROCIRCUIT, READ-WRITE MEMORIES, 16384-BIT, STATIC |
| 617 | MICROCIRCUIT, READ-WRITE MEMORIES, 16384-BIT, DYNAMIC |
| 618 | MICROCIRCUIT, READ-WRITE MEMORIES, 32768-BIT, STATIC |
| 619 | MICROCIRCUIT, READ-WRITE MEMORIES, 32768-BIT, DYNAMIC |
| 620 | MICROCIRCUIT, READ-WRITE MEMORIES, 65536-BIT, STATIC |
| 621 | MICROCIRCUIT, READ-WRITE MEMORIES, 65536-BIT, DYNAMIC |
| 622 | MICROCIRCUIT, READ-WRITE MEMORIES, 128K |
| 623 | MICROCIRCUIT, READ-WRITE MEMORIES, 256K |
| 624 | MICROCIRCUIT, READ-WRITE MEMORIES, 512K |
| 625 | MICROCIRCUIT, READ-WRITE MEMORIES, 1024K |
| 627 | MICROCIRCUIT, READ-WRITE MEMORIES, MULTIPLE PORT REGISTERS |
| 628 | MICROCIRCUIT, READ-WRITE MEMORIES, CONTENT ADDRESSABLE |
| 629 | MICROCIRCUIT, READ-WRITE MEMORIES, N.O.C. |
| 630 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 32X8 |
| 631 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 64X8 |
| 632 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 128X8 |
| 633 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 256X4 |
| 634 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 256X8 |
| 635 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 256X10/256X12 |
| 636 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 512 WORD |
| 637 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 1024 WORD |
| 638 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 2048 WORD |
| 639 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 4096 WORD |
| 640 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 8192 WORD |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 641 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 16384 WORD |
| 642 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, 32768 WORD |
| 649 | MICROCIRCUIT, READ-ONLY MEMORIES, MASK PROGRAMMABLE, N.O.C. |
| 650 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 32X8 |
| 651 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 64X8 |
| 652 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 256X1 |
| 653 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 256X4 |
| 654 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 256X8 |
| 655 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 512X4 |
| 656 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 4096 |
| 657 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 8192 BIT |
| 658 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 16384 BIT |
| 659 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 32768 BIT |
| 660 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 65536 BIT |
| 661 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, 128K BIT |
| 662 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE AND ALTERABLE, UV ERASABLE, 256K |
| 663 | MICROCIRCUIT, PROMS, 512K |
| 664 | MICROCIRCUIT, PROMS, 1024K |
| 669 | MICROCIRCUIT, READ-ONLY MEMORIES, ELECTRICALLY PROGRAMMABLE, NOC |
| 670 | MICROCIRCUIT, FIRST-IN-FIRST-OUT (FIFO) MEMORIES |
| 671 | MICROCIRCUIT, BUBBLE MEMORIES, MAGNETIC |
| 699 | MICROCIRCUIT, MEMORY DEVICES, N.O.C. |
| 700 | MICROCIRCUIT, OPERATIONAL AMPLIFIER, INTERNALLY COMPENSATED, GENERAL PURPOSE |
| 701 | MICROCIRCUIT, OPERATIONAL AMPLIFIER, INTERNALLY COMPENSATED, LOW CURRENT |
| 702 | MICROCIRCUIT, OPERATIONAL AMPLIFIER, INTERNALLY COMPENSATED, HIGH SPEED |
| 703 | MICROCIRCUIT, OP AMP, INTERNALLY COMPENSATED, FET INPUT |
| 710 | MICROCIRCUIT, OPERATIONAL AMPLIFIER, DUAL AMPLIFIER |
| 711 | MICROCIRCUIT, VOLTAGE FOLLOWERS |
| 712 | MICROCIRCUIT, DIFFERENTIAL AMPS (DIFFERENTIAL OUTPUT) |
| 713 | MICROCIRCUIT, QUAD AMPS |
| 719 | MICROCIRCUIT, OP AMPS, INTERNALLY COMPENSATED, N.O.C. |
| 720 | MICROCIRCUIT, EXT COMP SINGLE AMP DIFF INPUT SINGLE OUTPUT GENERAL PURPOSE |
| 721 | MICROCIRCUIT, EXT COMP SINGLE AMP DIFF INPUT SINGLE OUTPUT LOW CURRENT MAX INPUT OFFSETCURRENT AT 25 DEG C < 30 |
| 722 | MICROCIRCUIT, EXT COMP SINGLE AMP DIFF INPUT SINGLE OUTPUT HIGH SPEED (TYP SLEW RATE AT 25 DEG C GREATER 5 V/MICRO S) |
| 723 | MICROCIRCUIT, EXT COMP SINGLE AMP DIFF INPUT SINGLE OUTPUT FET INPUT |
| 724 | MICROCIRCUIT, EXT COMP SINGLE AMP DIFF INPUT SINGLE OUTPUT POWER |
| 730 | MICROCIRCUIT, OP AMPS, EXTERNALLY COMPENSATED, DUAL |
| 738 | MICROCIRCUIT, OP AMPS, EXTERNALLY COMPENSATED, N.O.C. |
| 739 | MICROCIRCUIT, OP AMPS, N.O.C. |
| 740 | MICROCIRCUIT, SENSE AMPS, SINGLE CHANNEL |
| 741 | MICROCIRCUIT, SENSE AMPS, DUAL CHANNEL, COMMON OUTPUT |
| 742 | MICROCIRCUIT, SENSE AMPS, DUAL CHANNEL, INDEPENDENT OUTPUT |
| 743 | MICROCIRCUIT, SENSE AMPS, 4-CHANNEL W/CHANNEL SELECT |
| 749 | MICROCIRCUIT, SENSE AMPS, N.O.C. |

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 TABLE I. Noun Code Descriptions.

| <u>Noun</u> | <u>Description</u> |
|-------------|--|
| 750 | MICROCIRCUIT, RF/IF AMPS |
| 751 | MICROCIRCUIT, PROGRAMMABLE AMPLIFIERS |
| 752 | MICROCIRCUIT, CURRENT AMPLIFIERS |
| 753 | MICROCIRCUIT, POWER AMPLIFIERS |
| 754 | MICROCIRCUIT, INSTRUMENTATION AMPLIFIERS |
| 755 | MICROCIRCUIT, WIDEBAND DC AMPLIFIERS |
| 760 | MICROCIRCUIT, VIDEO AMPLIFIERS |
| 765 | MICROCIRCUIT, AUDIO AMPLIFIERS |
| 770 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, SINGLE AMPLIFIER, SINGLE OUTPUT |
| 771 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, SINGLE AMPLIFIER, SINGLE OUTPUT, WITH STROBE |
| 772 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, DIFFERENTIAL OUTPUT |
| 773 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, DUAL, COMMON OUTPUT |
| 774 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, DUAL SEPARATE OUTPUT |
| 775 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, DUAL, SEPARATE OUTPUTS, WITH STROBE |
| 776 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, QUAD (4 SEPARATE AMPS) |
| 779 | MICROCIRCUIT, DIFFERENTIAL VOLTAGE COMPARATORS, N.O.C. |
| 780 | MICROCIRCUIT, VOLTAGE REGULATORS, POSITIVE, VARIABLE |
| 781 | MICROCIRCUIT, VOLTAGE REGULATORS, NEGATIVE, VARIABLE |
| 782 | MICROCIRCUIT, VOLTAGE REGULATORS, POSITIVE, FIXED |
| 783 | MICROCIRCUIT, VOLTAGE REGULATORS, NEGATIVE, FIXED |
| 784 | MICROCIRCUIT, VOLTAGE REGULATORS, TRACKING |
| 785 | MICROCIRCUIT, REGULATOR/REFERENCE DIODE |
| 786 | MICROCIRCUIT, SWITCHING REGULATORS |
| 787 | MICROCIRCUIT, REGULATOR CONTROL CIRCUITS |
| 789 | MICROCIRCUIT, VOLTAGE REGULATORS, N.O.C. |
| 790 | MICROCIRCUIT, ARRAYS, TRANSISTOR |
| 791 | MICROCIRCUIT, ARRAYS, DIODE |
| 792 | MICROCIRCUIT, ARRAYS, NOC |
| 800 | MICROCIRCUIT, COMMUNICATION CIRCUITS, LOGARITHMIC AMPLIFIERS/ANTILOG AMPLIFIERS |
| 801 | MICROCIRCUIT, BALANCED MIXERS |
| 802 | MICROCIRCUIT, COMMUNICATION CIRCUITS, PHASE-FREQUENCY DETECTORS |
| 803 | MICROCIRCUIT, COMMUNICATION CIRCUITS, PHASE-LOCKED LOOPS |
| 804 | MICROCIRCUIT, COMMUNICATION CIRCUITS, MODULATORS-DEMODULATORS |
| 805 | MICROCIRCUIT, ACTIVE FILTERS |
| 806 | MICROCIRCUIT, SIGNALING CIRCUITS |
| 807 | MICROCIRCUIT, CODEC CIRCUITS |
| 808 | MICROCIRCUIT, MODEM CIRCUITS |
| 809 | MICROCIRCUIT, COMMUNICATION CIRCUITS, N.O.C. |
| 810 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, QUADRANT MULTIPLIERS/DIVIDERS |
| 812 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, ZERO-VOLTAGE SWITCHES |
| 813 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, WAVEFORM-FUNCTION GENERATORS |
| 814 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, TIMERS |
| 815 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, OSCILLATORS, VOLTAGE CONTROLLED |
| 816 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, OSCILLATORS, RF/IF |
| 817 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, OSCILLATORS, AUDIO |
| 818 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, SAMPLE AND HOLD CIRCUITS |
| 819 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, MULTIPLE FUNCTION CIRCUITS |
| 820 | MICROCIRCUIT, AM/FM RECEIVER CIRCUITS |
| 821 | MICROCIRCUIT, LINEAR CIRCUITS, MISCELLANEOUS, CURRENT SOURCE/DRIVER |
| 822 | MICROCIRCUIT, IMAGE SENSOR |
| 830 | MICROCIRCUIT, GRAPHIC AND TV CIRCUITS |
| 831 | MICROCIRCUIT, SOUND GENERATION CIRCUITS |
| 839 | MICROCIRCUIT, SPECIAL FUNCTION CIRCUITS, NOC |
| 899 | MICROCIRCUIT, LINEAR CIRCUITS, N.O.C. |
| 998 | MICROCIRCUIT, TEMPORARILY UNCLASSIFIED |
| 999 | GENERAL SPECS MIL PART NUMBERS |