



LIST OF DISCONTINUED ESCC  
DOCUMENTS AND SPECIFICATIONS

ESCC REP002

ESCC/RP/REP002iss29

February 2024



Document Custodian: European Space Agency - see <https://escies.org>

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## CHANGE DESCRIPTION

This issue supersedes Issue 28, dated October 2023 and incorporates changes as per DCR1605.

## INTRODUCTION

This list comprises all discontinued ESCC documents and specifications which have been transferred from REP001 and are not subject to configuration control.

The REP002 specifications are former REP001 specifications which are covering obsolete components, technologies, test methods... no longer used or existing. These specifications are no longer updated and distributed. They do not represent the current ESCC policy and therefore cannot be used for procurement or manufacturing of parts.

The ESCC documents and specifications are classified according to 5 levels, viz:

LEVEL 0 - Policy

LEVEL 1 - 1(0) Organisation Documents.

1(1) Support Documents.

1(2) Implementation Documents.

LEVEL 2 - Basic Specifications.

LEVEL 3 - Generic Specifications.

LEVEL 4 - Detail Specifications.

However, to facilitate retrieval, they are not classified according to the above levels, but by the various classes of publication listed in the table of contents.

The ESCC documents are available from the ESCC web site: <https://spacecomponents.org>

The ESCC specifications are available from the ESCIES web site: <https://escies.org>.

CD-ROM images are also provided on the ESCIES web site.

If access to the web sites is not possible, queries may be directed to the secretariat:

ESCC Executive Secretariat  
ESA/ESTEC (TEC-QES)  
P.O. Box 299  
2200 AG Noordwijk  
The Netherlands  
FAX +31 (0)71 565 6637

Specification Family :                BASIC SPECIFICATIONS

Class of Publication Code :        3   BASIC SPECIFICATIONS

| Number |   | Specification Title  | Date       |
|--------|---|--|------------|
| 23000  | 1 | Requirements for the Extension of Qualification Approval of Standard Electronic Components for Space Application | 2010-02-01 |

Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 21 RESISTORS FILM AND METAL OXIDE

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 4001/001 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RNC55               | 2002-10-31 |
| 4001/002 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RNC60               | 2002-10-31 |
| 4001/003 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RNC65               | 2002-10-31 |
| 4001/005 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RLR05               | 2002-10-31 |
| 4001/006 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RLR07               | 2002-10-31 |
| 4001/007 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RLR20               | 2002-10-31 |
| 4001/009 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RNC50               | 2002-10-31 |
| 4001/010 | 1 | Resistors Fixed Film Non-Hermetically Sealed, based on type RNC70               | 2002-10-31 |
| 4001/016 | 1 | Resistors Fixed Chips Film, based on types CHP HR0505                           | 2002-10-31 |
| 4001/017 | 1 | Resistors Fixed Chips Film, Based on types CHP HR0705                           | 2002-10-31 |
| 4001/018 | 1 | Resistors Fixed Chips Film, based on types CHP HR0805                           | 2002-10-31 |
| 4001/019 | 1 | Resistors Fixed Chips Film, based on types CHP HR1010                           | 2002-10-31 |
| 4001/020 | 1 | Resistors Fixed Chips Film, based on type CHP HR1206                            | 2002-10-31 |
| 4001/021 | 1 | Resistors Fixed Surface Mount Film Non-Hermetically sealed, based on types SMC3 | 2002-10-31 |

Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 21 RESISTORS FILM AND METAL OXIDE

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 4001/024 | 1 | Resistors, Fixed, Thick Film,Radial Leads and Surface Mount, Non-Hermetically Sealed, based on type RTO HR 50 | 2002-10-31 |
| 4001/030 | 4 | RESISTORS, FIXED, CHIP, THIN FILM, BASED ON TYPE LHR  | 2017-04-07 |

Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 22 RESISTORS WIRE-WOUND PRECISION

| Number   |   | Specification Title                                     | Date       |
|----------|---|---|------------|
| 4002/001 | 1 | Resistors Fixed Wirewound Accurate, based on type RBR56 | 2012-02-02 |
| 4002/003 | 1 | Resistors Fixed Wirewound, based on type RWR80          | 2012-02-02 |
| 4002/004 | 1 | Resistors Fixed Wirewound, based on type RWR89          | 2012-02-02 |
| 4002/005 | 1 | Resistors Fixed Wirewound, based on type RWR81          | 2012-02-02 |
| 4002/006 | 1 | Resistors Fixed Wirewound Accurate, based on type RBR54 | 2012-02-02 |
| 4002/007 | 1 | Resistors Fixed Wirewound Accurate, based on type RBR55 | 2012-02-02 |
| 4002/009 | 1 | Resistors Fixed SMD Wirewound, based on Type MSP BHR    | 2012-02-02 |
| 4002     | 1 | Generic Specification for Resistors Fixed Wirewound     | 2012-02-02 |



Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 23 RESISTORS WIRE-WOUND CHASSIS-MOUNTED

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 4003/001 | 1 | Resistors Fixed Wirewound Power-Type Chassis-Mounted 5W Semi-Precision, based on type RER60  | 2012-02-02 |
| 4003/002 | 1 | Resistors Fixed Wirewound Power-Type Chassis-Mounted 10W Semi-Precision, based on type RER65 | 2012-02-02 |
| 4003/004 | 1 | Resistors Fixed Wirewound Power-Type Chassis-Mounted 5W Semi-Precision, based on type RER40  | 2012-02-02 |
| 4003/008 | 1 | Resistors Fixed Wirewound Power-Type Chassis-Mounted 30W Semi-Precision, based on type RER75 | 2012-02-02 |
| 4003     | 1 | Generic Specification for Resistors Fixed Wirewound (Power-Type Chassis-Mounted)             | 2012-02-02 |

Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 25 RESISTORS NETWORK THICK FILM

| Number   |   | Specification Title                                    | Date       |
|----------|---|--|------------|
| 4005/002 | 1 | Resistor Networks Thick Film, based on type ENG2096    | 2012-02-02 |
| 4005/003 | 1 | Resistor Networks Thick Film, based on S.I.L Packages  | 2012-02-02 |
| 4005     | 1 | Generic Specification for Resistors Network Thick Film | 2012-02-02 |

Specification Family : RESISTORS AND THERMISTORS

Class of Publication Code : 57 THERMISTORS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 4006/001 | 1 | Thermistors (Resistors Thermally Sensitive) Range 2000 to 15000 Ohms at +25 degree C with a Temperature Range of -40 to +160 degree C | 2011-11-17 |
| 4006/012 | 1 | Thermistors(thermally sensitive resistors) NTC Chip Style, based on series 196-xxxxAG-001   | 2012-02-02 |

Specification Family :               INDUCTORS

Class of Publication Code :        12 R.F. COILS

| Number   |   | Specification Title                 | Date       |
|----------|---|-------------------------------------|------------|
| 3201/006 | 1 | R.F. Coil Fixed, based on type S150 | 2002-10-31 |

Specification Family : CAPACITORS

Class of Publication Code : 4 CAPACITORS CERAMIC

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3001/001 | 1 | Capacitors Fixed Ceramic Dielectric Type I, based on type CLC904L                               | 2012-02-02 |
| 3001/002 | 1 | Capacitors Fixed Ceramic Dielectric Type I, based on type CLC905L                               | 2012-02-02 |
| 3001/003 | 1 | Capacitors Fixed Ceramic Dielectric Type I, based on type CLC908L                               | 2012-02-02 |
| 3001/004 | 1 | Capacitors Fixed Ceramic Dielectric Type I, based on type CLC910L                               | 2012-02-02 |
| 3001/006 | 1 | Capacitors Fixed Ceramic Dielectric Type II, based on type CKR06                                | 2012-02-02 |
| 3001/008 | 1 | Capacitors Fixed Ceramic Dielectric Type II, based on type CKR05                                | 2012-02-02 |
| 3001/018 | 1 | Capacitors Fixed Ceramic Dielectric Type I, based on type CCR05                                 | 2012-02-02 |
| 3001/019 | 1 | Capacitors Fixed Ceramic Dielectric Type I , based on type CCR06                                | 2012-02-02 |
| 3001/032 | 1 | Capacitors Fixed Multiple Layer Ceramic Dielectric Type I, based on type SPT818                 | 2012-02-02 |
| 3001/035 | 1 | Capacitors, Fixed, Ceramic Dielectric, Type I, High Voltage 1.0 to 5.0 kV, Radial Leaded Device | 2012-02-02 |
| 3001/036 | 1 | Capacitors, Fixed, Ceramic Dielectric Type II, High Voltage 1.0 to 5.0 KV, Radial Leaded Device | 2012-02-02 |

Specification Family : CAPACITORS

Class of Publication Code : 5 CAPACITORS TANTALUM SOLID

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3002/001 | 1 | Capacitors Fixed Tantalum Solid Electrolyte, based on type CSR23      | 2012-02-02 |
| 3002/002 | 1 | Capacitors Fixed Tantalum Solid Electrolyte, based on type CSR13      | 2012-02-02 |
| 3002/003 | 2 | Capacitors Fixed Tantalum Solid Electrolyte, based on type CTS21E     | 2017-09-25 |
| 3002     | 2 | Generic Specification for Capacitors Fixed Tantalum Solid Electrolyte | 2017-09-25 |

Specification Family : CAPACITORS

Class of Publication Code : 7 CAPACITORS GLASS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3004/001 | 1 | Capacitors Fixed Glass Dielectric, based on type CYR10                  | 2012-02-02 |
| 3004/002 | 1 | Capacitors Fixed Glass Dielectric, based on type CYR15                  | 2012-02-02 |
| 3004/003 | 1 | Capacitors Fixed Glass Dielectric, based on types CYR51 CYR52 and CYR53 | 2012-02-02 |
| 3004     | 1 | Generic Specification for Capacitors Fixed Glass Dielectric             | 2012-02-02 |

Specification Family : CAPACITORS

Class of Publication Code : 9 CAPACITORS FIXED PLASTIC METALLISED

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3006/001 | 1 | Capacitors Fixed Metallized Plastic Film Dielectric, based on types CRH01 thru CHR05  | 2012-02-02 |
| 3006/008 | 1 | Capacitors Fixed Metallized Plastic Film Dielectric High Voltage, based on type IEXXX | 2012-02-02 |



Specification Family : CAPACITORS

Class of Publication Code : 10 CAPACITORS MICA

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3007/001 | 1 | Capacitors Fixed Mica Dielectric, based on type CMR01      | 2012-02-02 |
| 3007/002 | 1 | Capacitors Fixed Mica Dielectric, based on type CMR02      | 2012-02-02 |
| 3007/003 | 1 | Capacitors Fixed Mica Dielectric, based on type CMR03      | 2012-02-02 |
| 3007/004 | 1 | Capacitors Fixed Mica Dielectric, based on type CMR04      | 2012-02-02 |
| 3007     | 1 | Generic Specification for Capacitors Fixed Mica Dielectric | 2012-02-02 |

Specification Family : CAPACITORS

Class of Publication Code : 11 CAPACITORS FILTER

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3008/001 | 1 | Capacitor Filters Feedthrough Electromagnetic Interference Suppression, based on type 1270/712                               | 2012-02-02 |
| 3008/021 | 3 | Capacitor Filters PI-Type Feedthrough Electromagnetic Interference Suppression Hermetically Sealed, based on type SFP060     | 2024-01-09 |
| 3008/026 | 3 | Capacitor Filters C-Type Feedthrough Electromagnetic Interference Suppression Hermetically Sealed, based on type SFC060      | 2024-01-09 |
| 3008/027 | 4 | Capacitor Filters C-Type FeedThrough Electromagnetic Interference Suppression Hermetically Sealed, based on type SFC100      | 2024-01-09 |
| 3008/028 | 4 | Capacitor Filters PI-Type Feedthrough Electromagnetic Interference Suppression Hermetically Sealed, based on type SFP100     | 2024-01-09 |
| 3008/029 | 4 | Capacitor Filters L-Type Feedthrough Electromagnetic Interference Suppression Hermetically Sealed, based on type SFL100      | 2024-01-09 |
| 3008/030 | 3 | Capacitor Filters PI-Type Feedthrough Electromagnetic Interference Suppression Non-Hermetically Sealed, based on type SFP060 | 2024-01-09 |
| 3008/033 | 4 | Capacitor Filters C-Type Feedthrough Electromagnetic Interference Suppression Non-Hermetically Sealed, based on type SFC060  | 2024-01-09 |

Specification Family : CAPACITORS

Class of Publication Code : 48 CAPACITORS CHIP

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3009/007 | 1 | Capacitors Fixed Chips Ceramic Dielectric Type I, based on type 1805   | 2012-02-02 |
| 3009/012 | 1 | Capacitors Fixed Chips Ceramic Dielectric Type II, based on type 1805  | 2012-02-02 |
| 3009/013 | 1 | Capacitors Fixed Button Ceramic Dielectric Type I, based on type CFC908  | 2012-02-02 |
| 3009/016 | 1 | Capacitors Fixed Chips Multiple Layer Ceramic Dielectric High Frequency Type I, based on types CDR11 and CDR12       | 2012-02-02 |
| 3009/017 | 1 | Capacitors Fixed Chips Multiple Layer Ceramic Dielectric High Frequency Type I, based on types CDR13 CDR14 and CDR21 | 2012-02-02 |
| 3009/035 | 1 | Capacitors Fixed Chips Multiple Layer Ceramic Dielectric High Frequency, based on Type CHA                           | 2015-05-22 |
| 3009/036 | 1 | Capacitors Fixed chips Multiple Layer Ceramic Dielectric High Frequency, based on Type CHB                           | 2015-05-22 |

Specification Family : CAPACITORS

Class of Publication Code : 66 CAPACITORS CHIP TANTALUM SOLID ELECTROLYTE

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3011/001 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 1005       | 2015-12-08 |
| 3011/002 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 1505       | 2015-12-08 |
| 3011/003 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 2005       | 2015-12-08 |
| 3011/004 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 1510       | 2015-12-08 |
| 3011/005 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 2010       | 2015-12-08 |
| 3011/006 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 2213       | 2015-12-08 |
| 3011/007 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 2611       | 2015-12-08 |
| 3011/008 | 3 | Capacitors Chip Tantalum Solid Electrolyte, based on type 2815       | 2015-12-08 |
| 3011     | 2 | Generic Specification for Capacitors Chip Tantalum Solid Electrolyte | 2015-12-08 |

Specification Family : CAPACITORS  
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Class of Publication Code : 71

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3012/005 | 2 | Capacitors, Leadless Surface Mounted, Organic Polymer Tantalum, Solid Electrolyte, Enclosed Anode Connection, Based On Type T583 | 2020-04-20 |
| 3012/007 | 1 | Capacitors, Leadless Surface Mounted, Organic Polymer Tantalum, Solid Electrolyte, Enclosed Anode Connection Based on type T584  | 2020-04-20 |

Specification Family : CAPACITORS

Class of Publication Code : 90 CAPACITOR MICROWAVE SILICON DICE (5711/...)

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5711/001 | 1 | Capacitors Microwave Silicon Dice Mos, based on Types 101MC,201MC, 250MC, 400MC, 401Mc and 501MC | 2002-10-31 |

Specification Family : WIRES AND CABLES

Class of Publication Code : 19 CABLES L.F.

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3901/005 | 1 | Polyimide Insulated Wires and Cables Low Frequency 600V -100 to +150 degree C  | 2012-02-02 |
| 3901/006 | 1 | Polyimide Insulated Wires and Cables Low Frequency 600V -100 to +150 degree C  | 2012-02-02 |
| 3901/007 | 2 | Polyimide Insulated Wires and Cables Low Frequency 600V -150 to +150 degree C,<br>based on type SPA2110                                  | 2012-02-02 |
| 3901/008 | 2 | Polyimide Insulated Wires and Cables Low Frequency 600V -150 to +150 degree C,<br>based on type SPB2110                                  | 2012-02-02 |
| 3901/011 | 1 | Extruded Crosslinked Fluoropolymer Insulated Wires and Cables on Tin Plated Copper<br>Conductor Low Frequency 600V -100 to +150 degree C | 2012-02-02 |
| 3901/014 | 1 | Polyimide Insulated Shielded Cables with Drain Wires Low Frequency 600V -150deg.C<br>+200deg.C, based on type SPA2110                    | 2012-02-02 |

Specification Family : WIRES AND CABLES

Class of Publication Code : 82 SOLID WIRES 350V FOR WIRE WRAPPING

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3903/001 | 1 | Kynar Insulated Solid Wires for Wire Wrapping 350V -60 to +100 degree Celsius, based on type FA3903-WY | 2014-02-27 |
| 3903/002 | 1 | PFA Insulated Solid Wires for Wire Wrapping 350V -100 to +200 degree Celsius, based on type FA3903WP   | 2014-02-27 |
| 3903     | 2 | Generic Specification for Solid Wires Electrical 350 Volts for Wire Wrapping                           | 2015-12-08 |



Specification Family : CONNECTORS

Class of Publication Code : 13 CONNECTORS MULTICONTACT

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3401/007 | 1 | Connectors Miniature Electrical Circular Bayonet Coupling Crimp-Type Removable Contacts, based on type DFE                | 2012-02-02 |
| 3401/011 | 1 | Connectors Subminiature Electrical Rectangular Central Jackscrew Coupling Crimp-Type Removable Contacts, based on type UR | 2012-11-14 |
| 3401/023 | 1 | Connectors Miniature Electrical Circular Push-pull Coupling Hermetic Receptacle, based on type DBA 7*H                    | 2012-02-02 |
| 3401/033 | 1 | Connectors Savers Electrical Circular Miniature non-removable, based on type DBAS   | 2014-02-27 |
| 3401/043 | 1 | Connectors Miniature Electrical Circular Bayonet Coupling Hermetic Receptacle, based on type DBC5*H                       | 2012-02-02 |
| 3401/060 | 1 | Connectors Electrical Rectangular Multiple Insert Type Rack and Panel Removable Crimp Contacts, based on MIL-C83527       | 2012-02-02 |
| 3401/061 | 1 | Contacts Electrical Crimp for 3401/060 Connectors   | 2012-02-02 |
| 3401/069 | 1 | Contacts Electrical Twinax Crimp for 3401/001 Connectors  | 2014-02-27 |
| 3401/071 | 3 | Connectors, Electrical, Rectangular, Microminiature, Solder Bucket Contacts, with EMI Backshell, based on Type MDM        | 2018-04-26 |
| 3401/085 | 4 | Fast-Locking Screw Lock Assemblies For Rectangular Connectors 3401/001, 3401/002 and Connector Savers 3401/020, 3401/080  | 2022-11-03 |

Specification Family : CONNECTORS

Class of Publication Code : 14 CONNECTORS COAXIAL

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3402/011 | 1 | RF Coaxial Connectors Blind-mate Slide-on, based on type SBMA (male contact)  | 2014-02-27 |
| 3402/012 | 1 | RF Coaxial Connectors Blind-Mate Slide-On, based on type SBMA(female contact) | 2014-02-27 |
| 3402/013 | 1 | RF Coaxial Connectors Blind Mate Slide-On, based on type BMA (male contact)   | 2012-02-02 |
| 3402/014 | 1 | RF Coaxial Connectors Blind Mate Slide-on, based on type BMA (Female contact) | 2012-02-02 |

Specification Family : RELAYS AND SWITCHES

Class of Publication Code : 16 RELAYS NON-LATCHING

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3601/004 | 2 | Relays Electromagnetic Non-Latching 28Vdc 10A 2PDT, based on type GP7 | 2012-11-14 |

Specification Family :               RELAYS AND SWITCHES

Class of Publication Code :        17 RELAYS LATCHING

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3602/005 | 3 | Relays Electromagnetic Latching 10A 50 Vdc, based on type GP3A | 2012-11-14 |

Specification Family : RELAYS AND SWITCHES

Class of Publication Code : 59 TOGGLE SWITCHES

| Number   |   | Specification Title                                      | Date       |
|----------|---|--|------------|
| 3701/001 | 1 | Toggle Switches, based on series 12100 and 11100         | 2002-10-31 |
| 3701/003 | 3 | Microswitches Sensitive 1PDT, based on series T3         | 2015-12-08 |
| 2043701  | 3 | Internal Visual Inspection of Electromechanical Switches | 2015-12-08 |
| 2053701  | 3 | External Visual Inspection of Electromechanical Switches | 2015-12-08 |
| 3701     | 3 | Generic Specification for Electromechanical Switches     | 2015-12-08 |

Specification Family :                   RELAYS AND SWITCHES  
  RELAYS ELECTROMAGNETIC RF COAXIAL SWITCH LATCHING  
Class of Publication Code :           92

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3603/002 | 1 | Relays Electromagnetic RF Coaxial Switch Latching Single Pole Double Throw SMA Connectors (BBM) with Indicator Circuit | 2013-04-23 |
| 3603/006 | 1 | Relays Eelctromagnetic, RF Coaxial Switch, Latching, 3/3/5 Matrix, SMA Connectors (BBM) with Indicator Circuit         | 2012-02-02 |

Specification Family : CRYSTALS AND SAW DEVICES

Class of Publication Code : 15 QUARTZ CRYSTAL

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3501/001 | 4 | Crystal Units in Metal Holder, based on type T807, Frequency range:4.0-140MHz.   | 2014-02-27 |
| 3501/002 | 5 | Crystal Units In Metal Holder, based on type T1507, Frequency Range:2.5-20 MHz.  | 2014-02-27 |
| 3501/003 | 1 | Crystal Units in Metal Holder, based on type T2111, Frequency Range: 0.8-50MHz.  | 2014-02-27 |
| 3501/006 | 1 | Crystal Units in Glass Case Frequency Range 2.5 to 300MHz, based on type DA (HC-27/U)  | 2012-11-14 |
| 3501/008 | 5 | Crystal Units in Metal Holder, based on type T807, frequency range 4.0-140MHz.(Follow-up specification to ESA/SCC No.3501/001)                   | 2014-02-27 |
| 3501/009 | 6 | Crystal Units in Metal Holder, based on type T1507, Frequency Range 2.5-20MHz (follow-up specification to ESA/SCC 3501/002)                      | 2014-02-27 |
| 3501/011 | 4 | Crystal Units in Metal Holder Frequency Range 4.0-140MHz, based on type 807 (Follow-up Specification to ESA/SCC 3501/001 and 3501/008)           | 2014-02-27 |
| 3501/012 | 4 | Crystal Units in Metal Holder Frequency Range 4.0-140MHz, based on type 807 (Follow-up Specification to ESA/SCC 3501/001, 3501/008 and 3501/011) | 2014-02-27 |
| 3501/013 | 2 | Crystal Units for Surface Mounting based on Type 101, Frequency Range 10-30MHz   | 2019-10-11 |
| 3501/014 | 1 | Crystal Units based on Type 76 Frequency Range 1.5-30MHz   | 2012-02-02 |
| 3501/015 | 1 | Crystal Units based on Type 47, Frequency Range 5-160MHz   | 2012-02-02 |
| 3501/016 | 1 | Crystal Units in Metal Holder, based on Type T807, 50G, Frequency Range 4.0 to 140MHZ  | 2012-02-02 |
| 3501/017 | 1 | Crystal Units in Metal Holder, based on Type T1507, 50G, Frequency Range 2.5 - 20MHZ   | 2012-02-02 |
| 3501/021 | 1 | Crystal Units in Glass Case, Based on Type DA (HC-27/U), Frequency Range 2.5-300MHz<br>Follow-up to 3501/006                                     | 2012-11-14 |

Specification Family :               CRYSTALS AND SAW DEVICES

Class of Publication Code :        69 SURFACE ACOUSTIC (SAW) DEVICES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3502/001 | 1 | Surface Acoustic Wave (SAW) Bandpass Filter Operating in the Frequency Range 10-200 MHz | 2011-11-17 |



Specification Family : MISCELLANEOUS PASSIVE

Class of Publication Code : 58 ATTENUATORS AND LOADS

| Number   |   | Specification Title                                    | Date       |
|----------|---|--|------------|
| 3403/004 | 6 | Load, RF, Coaxial, Type SMA, DC-18GHz                  | 2022-11-03 |
| 3403/007 | 1 | Flange Loads High Power 50 Ohms, based on type EMC8745 | 2002-10-01 |

Specification Family : MISCELLANEOUS PASSIVE

Class of Publication Code : 62 POWER DIVIDERS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3404/004 | 1 | RF Power Dividers Unsealed 4-Port Quadrature SMA Connectors 3DB 1-18GHz | 2013-01-08 |
| 3404/005 | 1 | RF Couplers Unsealed SMA Connectors 4-30dB 1-22 GHz                     | 2013-01-08 |

Specification Family : MISCELLANEOUS PASSIVE

Class of Publication Code : 63 POWER DIVIDER COUPLER RF WAVEGUIDE

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 3102/001 | 1 | Waveguide Diplexers with Waveguide and Coaxial Interfaces 4-18Ghz, based on series WM***           | 2012-02-02 |
| 2023102  | 2 | Checklist for Waveguide Devices Manufacturer and Line Survey                                       | 2017-11-28 |
| 2053102  | 1 | External Visual Inspection of Waveguide Devices  | 2014-02-27 |
| 3102     | 1 | Generic Specification for Waveguide Filters and Multiplexers with Waveguide and Coaxial Interfaces | 2012-02-02 |

Specification Family : MISCELLANEOUS PASSIVE

Class of Publication Code : 64 HEATERS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 4009/003 | 6 | Resistors, Heater, Flexible, Single and Double Layer, Based on Type FHK | 2023-09-12 |

Specification Family : MISCELLANEOUS PASSIVE

Class of Publication Code : 70 FERRITE MICROWAVE COMPONENTS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 3202/018 | 1 | Circulators Coaxial/Drop-In 420MHz-18GHz, based on series 10*xxxx and 19*xxxx | 2014-02-27 |
| 3202/019 | 2 | Isolators Coaxial/Drop-In 420MHz-18GHz, based on series 20*xxxx and 29*xxxx   | 2017-09-25 |
| 3202/020 | 2 | Isolators Waveguide 2.5-40 GHz, based on series **HD***                       | 2017-09-25 |
| 3202/021 | 1 | Circulators Waveguide 2.5-40 GHz, based on series **CD****                    | 2014-02-27 |
| 3202/025 | 2 | Isolators Miniature Drop-In 4-18GHz, based on series F9*xxxx and H9*xxxx      | 2017-09-25 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 27 TRANSISTORS LOW POWER NPN

| Number   |   | Specification Title                             | Date       |
|----------|---|---|------------|
| 5201/010 | 1 | Transistors Low Power NPN, based on type 2N3866 | 2014-02-27 |
| 5201/015 | 1 | Transistors Low Power NPN, based on type BSX39  | 2014-02-27 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 29 TRANSISTORS HIGH POWER NPN

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5203/013 | 1 | Transistors High Power NPN, based on type 2N5004                    | 2012-02-02 |
| 5203/014 | 1 | Transistors High Power NPN Isolated Collector, based on type 2N3749 | 2012-02-02 |
| 5203/021 | 1 | Transistors High Power NPN, based on type 2N6032                    | 2012-02-02 |
| 5203/022 | 1 | Transistors NPN Power Switching, based on type 2N5074               | 2012-02-02 |
| 5203/026 | 1 | Transistors High Power NPN, based on type 2N6033                    | 2012-02-02 |
| 5203/027 | 1 | Transistors High Power NPN, based on type 2N3767                    | 2012-02-02 |
| 5203/029 | 1 | Transistors High Power NPN, based on type 2N6275                    | 2012-02-02 |
| 5203/030 | 1 | Transistors High Power NPN, based on type BUR14                     | 2012-02-02 |
| 5203/031 | 1 | Transistors High Power NPN, based on type 2N2814                    | 2012-02-02 |
| 5203/032 | 1 | Transistors High Power NPN, based on type 2N5539                    | 2012-02-02 |
| 5203/033 | 1 | Transistors High Power NPN, based on type 2N3999                    | 2012-02-02 |
| 5203/035 | 1 | Transistors Switching Power NPN, based on type 2N5542               | 2012-02-02 |
| 5203/036 | 1 | Transistors High Power NPN, based on type SDT79823                  | 2012-02-02 |
| 5203/037 | 1 | Transistors High Power NPN, based on type 2N5660 through 2N5663     | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 30 TRANSISTORS HIGH POWER PNP

| Number   |   | Specification Title                              | Date       |
|----------|---|--|------------|
| 5204/005 | 1 | Transistors High Power PNP, based on type 2N5005 | 2012-02-02 |



Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 31 TRANSISTORS FET N CHANNEL

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5205/007 | 1 | Transistors Field-Effect N-Channel, based on types 2N4091/2N4092 and 2N4093                   | 2012-02-02 |
| 5205/013 | 1 | Transistors Power Field-Effect N-Channel, based on types 2N6764/2N6766 and 2N6768             | 2012-02-02 |
| 5205/014 | 1 | Transistors MOS FET N-Channel Power, based on type 2N6782                                     | 2012-02-02 |
| 5205/019 | 1 | Transistors MOSFET N-Channel Power, based on types 2N6796/6798/6800/6802                      | 2012-02-02 |
| 5205/020 | 1 | Transistors MOSFET Power N-Channel, based on types IRFY044, 120, 130, 140, 240, 340, 430, 440 | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 32 TRANSISTORS FET P CHANNEL

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5206/004 | 1 | Transistors MOSFET P-Channel Power, based on types 2N6804 and 2N6806          | 2012-02-02 |
| 5206/005 | 1 | Transistors MOSFET Power P-Channel, based on types IRFY9120, 9130, 9140, 9240 | 2012-02-02 |
| 5206/006 | 1 | Transistors MOSFET P-Channel Power, based on type IRF9140                     | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 33 MULTIPLE TRANSISTORS

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5207/006 | 1 | Transistors Quadruple PNP Silicon Transistor Array, based on type MQ3467 | 2012-02-02 |
| 5207/008 | 1 | Transistors Matched Dual NPN, based on types MD2369A and MD2369AF        | 2012-02-02 |
| 5207/012 | 1 | Transistors Dual NPN, based on type MD2219AF                             | 2012-02-02 |
| 5207/013 | 1 | Transistors Dual PNP, based on types MD2905AF and MD2905A                | 2012-02-02 |
| 5207/019 | 1 | Transistors Quadruple PNP Silicon Array, based on type S501T             | 2012-02-02 |
| 5207/020 | 1 | Transistors Quadruple NPN Silicon Array, based on type S502T             | 2012-11-14 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 34 TRANSISTORS SWITCHING

| Number   |   | Specification Title                                    | Date       |
|----------|---|--|------------|
| 5208/005 | 1 | Transistors NPN Power Transistor, based on type 2N5926 | 2012-02-02 |
| 5208/006 | 1 | Transistors Power NPN, based on type 2N3599            | 2012-02-02 |
| 5208/007 | 1 | Transistors Power NPN, based on type 2N6307            | 2012-02-02 |
| 5208/008 | 1 | Transistors Power Switching NPN, based on type 2N4150  | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 36 DIODES SWITCHING

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5101/005 | 1 | Fast Recovery Avalanche Rectifiers 400mW, based on types BYX57500 and BYX57600 | 2012-02-02 |
| 5101/006 | 1 | Diodes Switching, based on type 1N3595   | 2012-02-02 |
| 5101/007 | 1 | Diodes Switching, based on type 1N3600   | 2012-02-02 |
| 5101/011 | 1 | Diodes Switching, based on types 1N5812 through 1N5816                         | 2012-02-02 |
| 5101/012 | 1 | Diodes Switching Rectifier Low Power High Voltage, based on type F60A          | 2012-02-02 |
| 5101/015 | 1 | Diodes Silicon Fast Recovery Rectifier, based on type BYW56                    | 2012-02-02 |
| 5101/016 | 1 | Diodes Switching, based on type 1N4153   | 2012-02-02 |
| 5101/018 | 1 | Diodes Switching Fast Recovery, based on type UTR6420                          | 2012-02-02 |
| 5101/023 | 1 | Diodes Fast Switching, based on type 1N4148-1                                  | 2012-02-02 |
| 5101/024 | 1 | Diodes Switching, based on type 1N4150-1                                       | 2012-02-02 |
| 5101/025 | 1 | Diodes Switching, based on type 1N4151-1                                       | 2012-02-02 |
| 5101/028 | 1 | Diodes Switching, based on types 1N3595-1 and 1N3595US                         | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 37 DIODES VOLTAGE REFERENCE

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5102/002 | 2 | Diodes Voltage Regulators, based on series BZX85C  | 2012-11-14 |
| 5102/004 | 1 | Diodes Voltage Reference 6.4V in DO-35 Case, based on types 1N4565A thru 1N4584A                       | 2012-02-02 |
| 5102/007 | 1 | Diodes Low Noise Voltage Regulator, based on types 1N4099-1 thru 1N4135-1                              | 2012-02-02 |
| 5102/008 | 1 | Diodes Voltage Reference 6.2V in DO35 Case, based on types 1N821A thru 1N829A                          | 2012-02-02 |
| 5102/010 | 1 | Diodes Voltage Regulator, based on BZX55 series  | 2012-02-02 |
| 5102/013 | 1 | Diodes Voltage Reference, based on types 1N4954 thru 1N4995  | 2012-02-02 |
| 5102/014 | 1 | Diodes Voltage Reference, based on type 1N4372A  | 2012-02-02 |
| 5102/015 | 1 | Diodes Voltage Regulator, based on types 1N3821A through 1N3828A and 1N3015B through 1N3051B           | 2012-02-02 |
| 5102/019 | 1 | Diodes Low Noise Voltage Regulator, based on types 1N4614 through 1N4627 and 1N4614-1 through 1N4627-1 | 2012-02-02 |
| 5102/020 | 1 | Diodes Voltage Regulator Silicon, based on types 1N6485 to 1N6491 and 1N4460 to 1N4465                 | 2012-02-02 |
| 5102/021 | 1 | Diodes Low Noise Voltage Regulator, based on types 1N6309 to 1N6355                                    | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 38 DIODES RECTIFIER

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5103/001 | 1 | Diodes Silicon Rectifier 400mW, based on types 1N645-649                                       | 2012-02-02 |
| 5103/003 | 1 | Diodes Silicon Power Rectifier, based on types 1N4383-4386                                     | 2012-02-02 |
| 5103/004 | 1 | Diodes Switching, based on type UTX4120  | 2012-02-02 |
| 5103/005 | 1 | Diodes Switching, based on type UTX225   | 2012-02-02 |
| 5103/007 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types 1N5415 through 5420               | 2012-02-02 |
| 5103/008 | 1 | Diodes Rectifier, based on types 1N4942/4944/4946/4947/4948                                    | 2012-02-02 |
| 5103/010 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types 1N3890/3891/3893                  | 2012-02-02 |
| 5103/013 | 1 | Diodes Silicon Fast Recovery Rectifier Low Forward Voltage Drop, based on series BYW77         | 2012-02-02 |
| 5103/017 | 1 | Diodes Rectifier Fast Recovery, based on types UES801/802/803 and UES801R/802R/803R            | 2012-02-02 |
| 5103/018 | 1 | Diodes Silicon Fast Recovery (Low Forward Voltage Drop), based on series BYW78                 | 2012-02-02 |
| 5103/021 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types 1N5615/17/19/21/23                | 2012-02-02 |
| 5103/024 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types 1N5614/16/18/20/22                | 2012-02-02 |
| 5103/025 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types BYV27/50, BYV27/100 and BYV27/150 | 2012-02-02 |
| 5103/026 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types BYV61, 62 and 63                  | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 38 DIODES RECTIFIER

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5103/027 | 1 | Diodes Silicon Power Rectifier Fast Recovery, based on types 1N5550/51/52/53/54 | 2012-02-02 |
| 5103/028 | 1 | Diode Rectifier Schottky, based on types 1N5817 to 1N5819                       | 2011-11-17 |



Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 53 DIODES SHOTTKY

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5106/002 | 1 | Diodes Switching Schottky Barrier, based on type 1N5712                | 2014-02-27 |
| 5106/010 | 1 | Diodes Switching, based on type 1N5711                                 | 2012-11-14 |
| 5106/014 | 1 | Diode Microwave Schottky Mixer Silicon, based on types BAT14 and BAT15 | 2012-11-14 |
| 5106/015 | 1 | Diodes Power Schottky Barrier, based on type 1N6391                    | 2012-11-14 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 54 DIODES MISCELLANEOUS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5107/001 | 1 | Diodes Reference/Transient Suppressor, based on types 1N5555 through 1N555,1N5629A through 1N5665A and 1N5907 | 2012-11-14 |
| 5107/016 | 1 | Diodes Voltage Variable Capacitor, based on types 1N5139A through 1N5148A                                     | 2012-11-14 |
| 5107/022 | 1 | Diodes Silicon Field Effect Current Regulator, based on types 1N5283 through 1N5314                           | 2012-11-14 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 72 MICROWAVE DIODES: OSCILLATORS

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5511/001 | 1 | Diodes Microwave Gallium Arsenide Gunn, based on types ML4921 to 23, ML4931to33, ML4941to43, ML4951to53, ML4961to63, ML4971to73 and ML4981to83 | 2012-02-02 |
| 5511/002 | 1 | Diodes Microwave Gallium Arsenide Gunn, based on types ML4901 to ML4906 & ML4910 to ML4911   | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 73 MICROWAVE DIODES: SMALL SIGNAL

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5512/001 | 2 | Diodes Microwave Silicon Multiplier Varactor, based on types ML4402 ML4404 thru ML4409 and ML40721                             | 2021-02-09 |
| 5512/002 | 1 | Diodes Microwave Gallium Arsenide Tuning Varactor, based on types ML4512 thru ML4518   | 2012-11-14 |
| 5512/003 | 3 | Diodes Microwave Silicon Tuning Varactor, based on type ML4310 thru ML4319   | 2021-02-09 |
| 5512/004 | 3 | Diodes Microwave Silicon Tuning Varactor, based on types ML4331 to ML4335  | 2021-02-09 |
| 5512/005 | 2 | Diodes Microwave Silicon Tuning Varactor, based on types ML4336 to ML4343  | 2021-02-09 |
| 5512/006 | 2 | Diodes Microwave Silicon Tuning Varactor, based on types ML4351 to ML4354  | 2021-02-09 |
| 5512/007 | 2 | Diodes Microwave Silicon Tuning Varactor, based on types ML4355 to ML4365  | 2021-02-09 |
| 5512/008 | 1 | Diodes Microwave Gallium Arsenide Tuning Varactor, based on types ML4532 to ML4538   | 2012-11-14 |
| 5512/009 | 1 | Diodes Microwave Gallium Arsenide Tuning Varactor, based on types ML4552 to ML4558   | 2012-11-14 |
| 5512/010 | 1 | Diodes Microwave Gallium Arsenide Multiplier Varactor, based on types ML48701E thru ML48705E                                   | 2012-11-14 |
| 5512/011 | 1 | Diodes Microwave Gallium Arsenide Multiplier Varactor, based on types ML48706C thru ML48708C and ML48709B to ML48710B          | 2012-11-14 |
| 5512/012 | 1 | Diodes Microwave Gallium Arsenide Hyperabrupt Tuning Varactor, based on types ML4577 to ML4580                                 | 2012-11-14 |
| 5512/013 | 1 | Diodes Microwave Gallium Arsenide Hyperabrupt Tuning Varactor, based on types ML4572 to ML4576                                 | 2012-11-14 |
| 5512/014 | 1 | Diodes Microwave Gallium Arsenide High Capacitance Tuning Varactor, based on types ML4519 ML4520 ML4539 ML4540 ML4559 and 4560 | 2012-11-14 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 73 MICROWAVE DIODES: SMALL SIGNAL

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5512/017 | 1 | Diodes Microwave Silicon Schottky, based on types<br>DH301,302,303,312,313,314,315,322,323,324,325 | 2012-02-02 |
| 5512/022 | 1 | Microwave Hyper-Abrupt Junction Tuning Varacter Silicon Diode, based on Types<br>DH733 to DH738    | 2012-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 74 MICROWAVE DIODES: LARGE SIGNAL

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5513/001 | 1 | Diodes Microwave Silicon PIN Limiter, based on types ML4202 ML4204 AND ML4206   | 2012-11-14 |
| 5513/002 | 1 | Diodes Microwave Silicon PIN Fast Switching, based on types ML4617P thru ML4619P  | 2012-11-14 |
| 5513/003 | 1 | Diodes Microwave Silicon PIN Plated Heatsink, based on types ML4630 and ML4631  | 2012-11-14 |
| 5513/004 | 1 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4603-54 to ML4608-54  | 2012-11-14 |
| 5513/005 | 1 | Diodes Microwave Silicon Pin Broadband, based on types ML4660,4661,4663,4665,4667,4669,4671 and thru 4674                             | 2012-11-14 |
| 5513/006 | 1 | Diodes Microwave Silicon Schottky Medium Barrier Mixer, based on types ML40019 to ML40021 ML40150 ML40151 ML40152 ML40160 and ML40161 | 2012-11-14 |
| 5513/007 | 3 | Diodes Microwave Silicon Pin Limiter, based on types ML4207 to ML4209   | 2021-02-09 |
| 5513/008 | 1 | Diodes Microwave Silicon Pin Plated Heatsink, based on types ML4609 ML4613 AND ML4616   | 2012-11-14 |
| 5513/009 | 3 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4610 ML4617 ML4618 & ML4619   | 2021-02-09 |
| 5513/010 | 3 | Diodes Microwave Silicon PIN Fast Switching, based on types ML4611 ML4612 ML4614 & ML4615   | 2021-02-09 |
| 5513/011 | 1 | Diodes Microwave Silicon Pin Plated Heatsink, based on types ML4620 ML4621 ML4625 ML4626  | 2012-11-14 |
| 5513/012 | 1 | Diodes Microwave Silicon Pin High Power, based on types ML4640 to ML4647  | 2012-11-14 |
| 5513/013 | 1 | Diodes Microwave Silicon Pin High Power, based on types ML4648 to ML4655  | 2012-11-14 |
| 5513/014 | 3 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4622 to ML4624  | 2021-02-09 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 74 MICROWAVE DIODES: LARGE SIGNAL

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5513/015 | 3 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4627 to ML4629  | 2021-02-09 |
| 5513/016 | 1 | Diodes Microwave Silicon Pin Broadband, based on types ML4661P ML4662 ML4663P ML4664 ML4665P ML4666 ML4667P ML4668 ML4669P and ML4670 | 2012-11-14 |
| 5513/018 | 1 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4622P to ML4624P  | 2012-11-14 |
| 5513/019 | 1 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4627P to ML4629P  | 2012-11-14 |
| 5513/020 | 1 | Diodes Microwave Silicon Pin Fast Switching, based on types ML4611P 4612P 4614P and 4615P   | 2012-11-14 |
| 5513/021 | 1 | Diodes Microwave Gallium Arsenide Schottky Mixer, based on types ML40461 to ML40464   | 2012-11-14 |
| 5513/028 | 1 | Diodes Microwave Silicon Pin Switching, based on type 1N5719  | 2012-11-14 |
| 5513/035 | 2 | Diodes Microwave Silicon PIN Fast Switching, based on types DH50401 to DH50405  | 2016-02-02 |

Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 77 MICROWAVE TRAN. III-V SMALL SIGNAL TRANSISTORS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5613/002 | 1 | High Electron Mobility Transistors Microwave Low Noise Small Signal Gallium Arsenide, based on type CFY66 | 2012-11-14 |
| 5613/004 | 3 | High Electron Mobility Transistors Microwave Low Noise Small Signal Gallium Arsenide, based on type CFY67 | 2020-04-20 |
| 5613/008 | 3 | Transistors, Microwave, Field Effect, Low Noise, Gallium Arsenide, based on Types CFY25 and CFY27         | 2015-09-24 |



Specification Family : DISCRETE SEMICONDUCTORS

Class of Publication Code : 87 III-V LARGE SIGNAL AND OSCILLATORS(5614/..)

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 5614/006 | 3 | Transistors Microwave Metal Semiconductor Field Effect Power Gallium Arsenide, based on types CLY29 and CLY32 | 2012-11-14 |
| 5614/007 | 2 | Transistors, Microwave, Field Effect, Power, Gallium Arsenide, based on Types CLX27 and CLX30                 | 2012-11-14 |
| 5614/008 | 3 | Transistors, Microwave, Field Effect, Power, Gallium Arsenide, Based on CLY35 and CLY38                       | 2012-11-14 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        18 COMPLEX DEVICES (MICROPROCESSORS...)

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9512/001 | 1 | CMOS Digital Signal Processor, based on type 320C25  | 2002-10-01 |
| 9521/001 | 1 | CMOS 8-bit Micro-Controller, based on type 80C31   | 2002-10-01 |
| 9543/003 | 1 | Silicon On Sapphire CMOS Programmable Direct Memory Access Controller, based on type MAS28137                  | 2002-10-31 |
| 9544/003 | 1 | Silicon On Sapphire CMOS Programmable Communication Interface, based on type MAS28151                          | 2002-10-31 |
| 9544/004 | 1 | Silicon on Sapphire CMOS Virtual Channel Multiplexer, based on type 12396                                      | 2002-10-31 |
| 9544/005 | 1 | Silicon on Sapphire CMOS Virtual Channel Assembler, based on type 12399  | 2002-10-31 |
| 9544/006 | 1 | CMOS Silicon on Sapphire OBDH-Remote Bus Interface RBI Circuit with 3-State Outputs, based on type 12663       | 2002-10-31 |
| 9544/007 | 1 | Integrated Circuit, Monolithic, Silicon on Sapphire, CMOS, Local Time Management System Based on Type MS-13196 | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        41 IC'S  GENERIC AND SECTIONAL  BASIC SPECS (9000)

| Number  |   | Specification Title   | Date       |
|---------|---|---|------------|
| 2049000 | 3 | Internal Visual Inspection of Silicon-Based Non-Microwave Integrated Circuits | 2021-06-24 |
| 2059000 | 3 | External Visual Inspection of Integrated Circuits                             | 2021-06-24 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        42 IC'S SIL MON BI: LINEAR

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9101/001 | 1 | Operational Amplifier, based on type LM 101A  | 2002-10-31 |
| 9101/005 | 1 | Operational Amplifier, based on type LM108A   | 2002-10-31 |
| 9101/006 | 1 | Operational Amplifier Buffer, based on type LM 118                                  | 2002-10-31 |
| 9101/008 | 1 | Dual Bipolar Operational Amplifiers, based on type LM747                            | 2002-10-31 |
| 9101/009 | 1 | Fast Sample and Hold Operational Amplifier, based on type HA-2420                   | 2002-10-31 |
| 9101/010 | 1 | Operational Amplifier, based on type HA2520-2                                       | 2002-10-31 |
| 9101/011 | 1 | Low Power Quad Bipolar Operational Amplifier, based on type LM124 and LM124A        | 2002-10-31 |
| 9101/017 | 1 | JFET Input Operational Amplifier, based on type LF155 LF155A LF156 LF156A and LF157 | 2002-10-31 |
| 9101/022 | 1 | Bipolar Operational Amplifiers, based on type LM11                                  | 2002-10-31 |
| 9101/033 | 1 | Bipolar Operational Amplifier, based on type OP400A                                 | 2002-10-31 |
| 9102/001 | 1 | Voltage Regulator, based on type LM104  | 2002-10-31 |
| 9102/002 | 1 | Voltage Regulator, based on type LM105  | 2002-10-31 |
| 9102/005 | 1 | 3-Terminal Adjustable Positive Regulator, based on type LM117                       | 2002-10-31 |
| 9102/007 | 1 | 3-Terminal Adjustable Negative Regulator, based on type LM137                       | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        42 IC'S SIL MON BI: LINEAR

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9102/013 | 1 | High Efficiency Linear Regulator, based on type UC1834   | 2002-10-31 |
| 9103/002 | 1 | Voltage Comparator, based on type LM111  | 2002-10-31 |
| 9103/004 | 1 | Quad Bipolar Voltage Comparator, based on types LM139 and LM139A   | 2002-10-31 |
| 9108/001 | 1 | Operational Amplifier, based on type LM110   | 2002-10-31 |
| 9108/002 | 1 | Precision Timer, based on type LM122   | 2002-10-31 |
| 9108/007 | 1 | Regulating Pulse Width Modulator, based on type SG1524   | 2002-10-31 |
| 9108/011 | 1 | Regulating Pulse Width Modulator, based on type SG1525A  | 2002-10-31 |
| 9108/018 | 1 | Integrated Circuits Silicon Monolithic Current Mode Pulse Width Modulator Controller, based on type UC1843 | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        43 IC'S SIL MON CMOS: 4000 SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9201/040 | 4 | CMOS Dual 3-Input NOR Gate plus Inverter, based on type 4000B                              | 2019-04-12 |
| 9201/044 | 4 | CMOS Dual 4-Input NAND Gate, based on type 4012B   | 2019-04-12 |
| 9201/045 | 4 | CMOS Triple 3-Input NAND Gates, based on type 4023B  | 2019-04-12 |
| 9201/046 | 4 | CMOS Triple 3-Input NOR Gate, based on type 4025B  | 2019-04-12 |
| 9201/054 | 4 | CMOS Multifunction Expandable 8-Input Gate with 3-State Output, based on type 4048B        | 2019-04-12 |
| 9201/062 | 4 | CMOS 8-Input NOR/OR Gate, based on type 4078B  | 2019-04-12 |
| 9201/066 | 4 | CMOS Dual 4-Input AND Gate, based on type 4082B  | 2019-04-12 |
| 9201/067 | 3 | CMOS Dual 2-Wide 2-Input AND/OR Inverter Gate, based on type 4085B                         | 2014-02-14 |
| 9201/068 | 4 | CMOS Expandable 4-Wide 2-Input AND/OR Inverter Gate, based on type 4086B                   | 2019-04-12 |
| 9202/038 | 4 | CMOS Dual Complementary Pair plus Inverter having unbuffered Outputs, based on type 4007UB | 2019-04-12 |
| 9202/041 | 4 | CMOS Quad Clocked 'D' Latch, based on type 4042B   | 2019-04-12 |
| 9202/050 | 3 | CMOS Quad Bilateral Switch, based on type 4016B  | 2014-02-14 |
| 9202/058 | 3 | CMOS 8-Bit Addressable Latch, based on type 4099B  | 2014-02-14 |
| 9202/060 | 4 | CMOS Binary Rate Multiplier, With Fully Buffered Outputs,based on type 4089B               | 2019-04-12 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            43 IC'S SIL MON CMOS: 4000 SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9202/063 | 3 | CMOS Dual 4-Bit Latch with 3-State Outputs, based on type 4508B   | 2014-10-15 |
| 9202/068 | 4 | CMOS 4-Bit Arithmetic Logic Unit With Fully Buffered Outputs, based on type 40181B                                    | 2019-04-12 |
| 9202/069 | 4 | CMOS Look-Ahead Carry Generator With Fully Buffered Outputs, based on type 40182B                                     | 2019-04-12 |
| 9204/013 | 4 | CMOS Dual BCD Up-Counter, based on type 4518B   | 2019-04-12 |
| 9204/046 | 3 | CMOS Programmable 4-Bit Binary Counter with Synchronous Clear, based on type 40163B                                   | 2014-02-14 |
| 9204/067 | 4 | CMOS Programmable 4-Bit Synchronous Decade Counter with Synchronous Clear, based on type 40162B                       | 2019-04-12 |
| 9208/002 | 4 | CMOS 9-Bit Parity Generator/Checker, based on type 40101B   | 2019-04-12 |
| 9301/009 | 4 | CMOS 4x4 Multiport Register with 3-State Outputs, based on type 40208B  | 2019-04-12 |
| 9306/013 | 4 | CMOS 18 Stage Static Shift Register, based on type 4006B  | 2019-04-12 |
| 9306/017 | 3 | CMOS 64-Stage Static Shift Register, based on type 4031B  | 2014-02-14 |
| 9306/018 | 3 | CMOS 4-Bit Universal Shift Register, based on type 4035B  | 2014-02-14 |
| 9306/025 | 4 | CMOS 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register with 3-State Outputs, based on type 4034B | 2019-04-12 |
| 9306/032 | 4 | CMOS 4-Bit Bidirectional Universal Shift Register, based on type 40194B   | 2019-04-12 |
| 9306/033 | 3 | CMOS FIFO Register with 3-State Outputs, based on type 40105B   | 2014-02-14 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        43 IC'S SIL MON CMOS: 4000 SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9306/034 | 4 | CMOS 4x4 Multiport Register with 3-State Outputs, based on type 40108B                          | 2019-04-12 |
| 9306/040 | 4 | CMOS 4-Bit Bi-Directional Universal Shift Register with 3 State Outputs, based on type 40104B   | 2019-04-12 |
| 9306/049 | 4 | CMOS Dual 64-Stage Static Shift Register with 3-State Outputs, based on type 4517B              | 2019-04-12 |
| 9401/006 | 3 | CMOS Strobed Hex Inverter/Buffer, based on type 4502B   | 2014-10-15 |
| 9406/001 | 3 | CMOS Ripple-Carry Decade Counter/Divider, based on type 4026B                                   | 2014-02-14 |
| 9408/017 | 3 | CMOS Quad 2-Line-to-1-Line Data Selector/Multiplexer with 3-State Outputs, based on type 40257B | 2014-02-14 |



Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/014 | 1 | Quad 2-Input Exclusive OR Gates, based on types 54LS86 and 54LS86A                | 2002-10-31 |
| 9201/015 | 1 | Quad 2-Input Positive NAND Gate, based on type 54LS00                             | 2002-10-31 |
| 9201/016 | 1 | Quad 2-Input Positive NOR Gate, based on type 54LS02                              | 2002-10-31 |
| 9201/017 | 1 | Triple 3-Input Positive NAND Gate, based on type 54LS10                           | 2002-10-31 |
| 9201/018 | 1 | Dual 4-Input Positive NAND Gate, based on type 54LS20                             | 2002-10-31 |
| 9201/019 | 1 | 8-Input Positive NAND Gate, based on type 54LS30                                  | 2002-10-31 |
| 9201/025 | 1 | 2-Wide 3-Input 2-Wide 2-Input Positive AND/OR Invert Gate, based on type 54LS51   | 2002-10-31 |
| 9201/026 | 1 | 4-Wide 3-2-2-3 Input Positive AND/OR Invert Gate, based on type 54LS54            | 2002-10-31 |
| 9201/028 | 1 | Triple 3-Input Positive NOR Gate, based on type 54LS27                            | 2002-10-31 |
| 9201/035 | 1 | Quad 2-Input Positive AND Gate, based on type 54LS08                              | 2002-10-31 |
| 9201/036 | 1 | Quadruple 2-Input High Voltage Interface Positive NAND Gate, based on type 54LS26 | 2002-10-31 |
| 9201/038 | 1 | Quad 2-Input Positive OR Gate, based on type 54LS32                               | 2002-10-31 |
| 9201/039 | 1 | Dual 4-Input Positive NAND Gate, based on type 54LS40                             | 2002-10-31 |
| 9201/049 | 1 | Triple 3-Input Positive AND Gate, based on type 54LS11                            | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/050 | 1 | Quad 2-Input Exclusive NOR Gates, based on type 54LS266                             | 2002-10-31 |
| 9201/053 | 1 | Dual 4-Input Positive and Gate, based on type 54LS21                                | 2002-10-31 |
| 9201/069 | 1 | Quad 2-Input Positive NAND Gate with Open Collector Output, based on type 54LS03    | 2002-10-31 |
| 9201/073 | 1 | Quad 2-Input Positive AND Gate with Open Collector Output, based on type 54LS09     | 2002-10-31 |
| 9201/081 | 1 | Quad 2-Input Exclusive OR Gates, based on type 54LS386 and 54LS386A                 | 2002-10-31 |
| 9202/005 | 1 | Arithmetic Logic Unit/Function Generator, based on type 54LS181                     | 2002-10-31 |
| 9202/009 | 1 | Hex Inverter, based on type 54LS04  | 2002-10-31 |
| 9202/010 | 1 | Quad 2-Line-to-1-Line Selectors/Multiplexers, based on type 54LS257A                | 2002-10-31 |
| 9202/013 | 1 | Hex Schmitt Trigger Inverter, based on type 54LS14                                  | 2002-10-31 |
| 9202/015 | 1 | 1-of-8 Data Selectors/Multiplexers, based on type 54LS151                           | 2002-10-31 |
| 9202/016 | 1 | Dual 4-Line-to-1-Line Data Selector/Multiplexer, based on type 54LS153              | 2002-10-31 |
| 9202/017 | 1 | Quad 2-Input Positive NAND Buffer with Open Collector Outputs, based on type 54LS38 | 2002-10-31 |
| 9202/027 | 1 | Quad 2-Line-to-1-Line Selectors/Multiplexers, based on type 54LS157                 | 2002-10-31 |
| 9202/028 | 1 | Quad 2-Line-to-1-Line Selectors/Multiplexers, based on type 54LS158                 | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9202/029 | 1 | Dual 4-line-to-1-Line Data Selectors/Multiplexers with 3-State Outputs, based on type 54LS253 | 2002-10-31 |
| 9202/030 | 1 | 4-Bit Binary Full Adder with Fast Carry, based on type 54LS83A                                | 2002-10-31 |
| 9202/031 | 1 | 4-Bit Magnitude Comparator, based on type 54LS85  | 2002-10-31 |
| 9202/032 | 1 | Low Power Bipolar Schottky 4-Bit Binary Full Adder with Fast Carry, based on type 54LS283     | 2002-10-31 |
| 9202/033 | 1 | Dual Monostable Multivibrators, based on type 54LS221   | 2002-10-31 |
| 9202/052 | 1 | Data Selectors/Multiplexers with 3-State Outputs, based on type 54LS251                       | 2002-10-31 |
| 9202/053 | 1 | Quad Set-Reset Latches, based on types 54LS279 and 54LS279A                                   | 2002-10-31 |
| 9202/054 | 1 | Hex Bus Driver with 3-State Outputs, based on type 54LS367A                                   | 2002-10-31 |
| 9202/055 | 1 | Hex Bus Driver with 3-State Outputs, based on type 54LS368A                                   | 2002-10-31 |
| 9202/064 | 1 | Dual Carry-Save Full Adders, based on type 54LS183  | 2002-10-31 |
| 9202/066 | 1 | Crystal Controlled Oscillator, based on type 54LS321  | 2002-10-31 |
| 9202/070 | 1 | 8-bit Addressable Latches, based on type 54LS259B   | 2002-10-31 |
| 9203/008 | 1 | 4-Bit Bistable Latches with Complementary Outputs, based on type 54LS75                       | 2002-10-31 |
| 9203/013 | 1 | Dual D-Type Flip-Flop with Preset and Clear, based on type 54LS74A                            | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9203/014 | 1 | Dual J-K Flip-Flop with Clear, based on type 54LS73A                           | 2002-10-31 |
| 9203/015 | 1 | Dual J-K Flip-Flop with Preset and Clear, based on type 54LS76A                | 2002-10-31 |
| 9203/016 | 1 | Dual J-K Flip-Flop with Preset and Clear, based on type 54LS112A               | 2002-10-31 |
| 9203/018 | 1 | Hex D-Type Flip-Flop with Clear, based on type 54LS174                         | 2002-10-31 |
| 9203/019 | 1 | Quad D-Type Flip-Flops with Clear, based on type 54LS175                       | 2002-10-31 |
| 9203/020 | 1 | Dual J-K Flip-Flops with Clear, based on type 54LS107A                         | 2002-10-31 |
| 9203/021 | 1 | Dual J-K Negative Edge-Triggered Flip-Flop with Preset, based on type 54LS113A | 2002-10-31 |
| 9203/024 | 1 | Dual J-K Flip-Flop with Preset and Clear, based on type 54LS109A               | 2002-10-31 |
| 9203/025 | 1 | Dual J-K Negative Edge-Triggered Flip-Flop, based on type 54LS114A             | 2002-10-31 |
| 9203/030 | 1 | Octal D-Type Flip-Flop with Clear, based on type 54LS273                       | 2002-10-31 |
| 9203/031 | 1 | Octal D-Type Flip-Flop, based on type 54LS374                                  | 2002-10-31 |
| 9203/034 | 1 | Octal D-Type Latches, based on type 54LS373                                    | 2002-10-31 |
| 9203/035 | 1 | Octal D-Type Flip-Flop with Enable, based on type 54LS377                      | 2002-10-31 |
| 9203/039 | 1 | 4-Bit Bistable Latches with Complementary Outputs, based on type 54LS375       | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9204/007 | 1 | Divide-by-2 and Divide-by-6 Counter, based on type 54LS92                    | 2002-10-31 |
| 9204/008 | 1 | 4-Bit Binary Counter, based on type 54LS93                                   | 2002-10-31 |
| 9204/010 | 1 | Decade Counter, based on type 54LS90   | 2002-10-31 |
| 9204/014 | 1 | Synchronous Counter with Direct Clear, based on type 54LS160A                | 2002-10-31 |
| 9204/015 | 1 | Synchronous Counter with Direct Clear, based on type 54LS161A                | 2002-10-31 |
| 9204/016 | 1 | Synchronous 4-Bit Counter with Synchronous Clear, based on type 54LS163A     | 2002-10-31 |
| 9204/017 | 1 | Programmable Synchronous 4-Bit Up/Down Binary Counter, based on type 54LS193 | 2002-10-31 |
| 9204/018 | 1 | Presetable Divide-by-2 and Divide-by-5 Counter, based on type 54LS196        | 2002-10-31 |
| 9204/019 | 1 | Presetable Divide-by-2 and Divide-by-8 Counter, based on type 54LS197        | 2002-10-31 |
| 9204/033 | 1 | Dual 4-Bit Decade and Binary Counter, based on type 54LS390                  | 2002-10-31 |
| 9204/034 | 1 | Dual 4-Bit Binary Counter, based on type 54LS393                             | 2002-10-31 |
| 9205/003 | 1 | Dual Decoder/Demultiplexer, based on types 54LS139 and 54LS139A              | 2002-10-31 |
| 9205/004 | 1 | Decoder/Demultiplexer, based on type 54LS138                                 | 2002-10-31 |
| 9205/008 | 1 | BCD-to-Decimal Decoder, based on type 54LS42                                 | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9205/009 | 1 | Dual 2-Line-to-4-Line Decoder/Demultiplexer, based on type 54LS155 and 54LS155A | 2002-10-31 |
| 9207/002 | 1 | Dual Monostable Multivibrator, based on type 54LS123                            | 2002-10-31 |
| 9207/004 | 1 | Retriggerable Monostable Multivibrator, based on type 54LS122                   | 2002-10-31 |
| 9208/001 | 1 | 9-Bit Odd/Even Parity Generator/Checker, based on type 54LS280                  | 2002-10-31 |
| 9301/001 | 1 | 4-by-4 Register File, based on type 54LS670                                     | 2002-10-31 |
| 9306/009 | 1 | 4-Bit Parallel Shift Register, based on type 54LS95B                            | 2002-10-31 |
| 9306/011 | 1 | 8-Bit Parallel-Out Serial Shift Register, based on type 54LS164                 | 2002-10-31 |
| 9306/012 | 1 | 4-Bit Bidirectional Universal Shift Register, based on type 54LS194A            | 2002-10-31 |
| 9306/019 | 1 | 4-Bit Parallel-Access Shift Register, based on type 54LS195A                    | 2002-10-31 |
| 9306/020 | 1 | 5-Bit Shift Register, based on type 54LS96                                      | 2002-10-31 |
| 9306/029 | 1 | Parallel Load 8-Bit Shift Register, based on types 54LS165 and 54LS165A         | 2002-10-31 |
| 9306/030 | 1 | 8-Bit Shift Register, based on types 54LS166 and 54LS166A                       | 2002-10-31 |
| 9306/035 | 1 | 16-Bit Shift Register, based on type 54LS673                                    | 2002-10-31 |
| 9306/036 | 1 | 16-bit Shift Register, based on type 54LS674                                    | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9401/007 | 1 | Quad 2-Input Positive NAND Buffer, based on type 54LS37                            | 2002-10-31 |
| 9401/008 | 1 | Quad 2-Input Positive NOR Buffer, based on type 54LS28                             | 2002-10-31 |
| 9401/009 | 1 | Hex Inverter, based on type 54LS05   | 2002-10-31 |
| 9401/011 | 1 | Quad Bus Buffer Gate with 3-State Outputs, based on type 54LS125A                  | 2002-10-31 |
| 9401/014 | 1 | Octal Buffer and Line Driver with 3-State Outputs, based on type 54LS240           | 2002-10-31 |
| 9401/016 | 1 | Octal Buffer/line Driver with 3-State Outputs, based on type 54LS241               | 2002-10-31 |
| 9401/017 | 1 | Hex Buffer Driver, based on type 54LS365A  | 2002-10-31 |
| 9402/003 | 1 | Octal Buffer/Line Driver/Line Receiver with 3-State Outputs, based on type 54LS244 | 2002-10-31 |
| 9405/002 | 1 | Octal Bus Transceivers with 3-State Outputs, based on type 54LS245                 | 2002-10-31 |
| 9405/003 | 1 | Quad Bus-Transceiver with Inverted 3-State Outputs, based on type 54LS242          | 2002-10-31 |
| 9405/004 | 1 | Quad Bus Transceivers with Non-Inverted 3-State Outputs, based on type 54LS243     | 2002-10-31 |
| 9406/002 | 1 | BCD-to-Decimal Decoder, based on type 54LS145                                      | 2002-10-31 |
| 9408/015 | 1 | Quad 2-Input Multiplexer with Storage, based on type 54LS398                       | 2002-10-31 |
| 9408/016 | 1 | Quad 2-Input Multiplexer with Storage, based on type 54LS399                       | 2002-10-31 |

Specification Family :               INTEGRATED CIRCUITS

Class of Publication Code :        44 IC'S SIL MON BI LOW POWER SCHOTTKY: 54LS SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9409/001 | 1 | Dual 4-Input Positive NAND Schmitt Trigger, based on type 54LS13  | 2002-10-31 |
| 9409/004 | 1 | Quad 2-Input Positive NAND Schmitt Trigger, based on type 54LS132 | 2002-10-31 |
| 9410/003 | 1 | 8-Line to 3-Line Priority Encoder, based on type 54LS148          | 2002-10-31 |



Specification Family : INTEGRATED CIRCUITS

Class of Publication Code : 47 IC'S SIL MON: OTHERS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9202/077 | 3 | Integrated Circuits, Monolithic, CMOS Silicon on Sapphire 3.5 GHz Delta-Sigma Modulated Fractional PLL Frequency Synthesizer based on Type PE33632                        | 2020-11-16 |
| 9202/078 | 3 | Integrated Circuits, Monolithic, CMOS Silicon On Sapphire, 3.5GHz Integer-N PLL Frequency Synthesiser, based on Type PE33632  | 2020-11-16 |
| 9202/079 | 3 | Integrated Circuits Monolithic, CMOS Silicon on Sapphire, 3.5 GHz Delta-Sigma Modulated Fractional-N Phase Locked Loop (PLL) Frequency Synthesizer, based on Type PE33632 | 2020-11-16 |
| 9202/081 | 1 | INTEGRATED CIRCUITS, MONOLITHIC, CMOS SILICON ON-SAPPHIRE, 7-BIT RF DIGITAL STEP ATTENUATOR, 50Ohm<br>BASED ON TYPE PE43751   | 2020-11-16 |
| 9202/082 | 1 | INTEGRATED CIRCUITS, MONOLITHIC, CMOS SILICON ON-SAPPHIRE, 6-BIT RF DIGITAL STEP ATTENUATOR, 50Ohm<br>BASED ON TYPE PE43652   | 2020-11-16 |
| 9204/063 | 1 | Integrated Circuits Monolithic Silicon on Sapphire CMOS ION Counter, based on type 11918  | 2002-10-31 |
| 9301/015 | 1 | CMOS Silicon Gate Static 16K (2048x8 Bit) Asynchronous Random Access Memory with 3-State Outputs, based on types HM65162 and HM65162B                                     | 2002-10-31 |
| 9301/018 | 1 | CMOS Silicon Gate Static 16K (16348x1Bit) Asynchronous Random Access Memory with 3-State Outputs, based on types HM65262 and HM65262B                                     | 2002-10-31 |
| 9301/026 | 1 | CMOS Silicon Gate Static 64K (65536 x1 Bit) Asynchronous Random Access Memory with 3-State Outputs, based on type HM65687   | 2002-10-31 |
| 9301/029 | 1 | CMOS Silicon Gate Static 64K (8192/8 bit) Asynchronous Random Access Memory with 3-State Outputs, based on type HM65664   | 2002-10-31 |
| 9301/030 | 1 | CMOS Silicon Gate Static 256K (32768x8bit) Asynchronous Random Access Memory with 3 State Outputs, based on type HM65656  | 2002-10-31 |
| 9301/032 | 1 | CMOS Silicon Gate Static 9K (1024x9 bit) First-In First-Out (FIFO Memory with 3 State Outputs, based on type M67202FV   | 2002-10-31 |
| 9301/034 | 1 | CMOS Silicon Gate Static 64K (4096x16 bit) Dual Port Memory with 3 State Outputs, based on type M67024EV  | 2002-10-31 |
| 9301/038 | 1 | CMOS Silicon Gate Static 256K (262144x1Bit) Asynchronous Random Access Memory with 3-State Outputs, based on type M65697EV  | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        47 IC'S SIL MON: OTHERS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9301/041 | 1 | CMOS Silicon Gate Static (512 x 9 Bit) First-In First Out Memory with 3-state Outputs, based on type M67201FV | 2002-10-31 |
| 9304/003 | 1 | High Performance Programmable Array Logic Circuit, based on type PAL16L8                                      | 2002-10-31 |
| 9304/005 | 1 | High Performance Programmable Array Logic Circuit, based on type PAL22V10                                     | 2002-10-31 |
| 9304/006 | 1 | High Performance Programmable Array Logic Circuit, based on type PAL20R8                                      | 2002-10-31 |
| 9304/007 | 1 | High Performance Programmable Array Logic (PAL) Circuit, based on type PAL20L8                                | 2002-10-31 |
| 9402/012 | 1 | Quad EIA-422 Line Driver with 3 State Outputs, based on type AM26LS31 and 55ALS192                            | 2002-10-31 |
| 9403/003 | 1 | Quad EIA-422/423 Line Receiver with 3-State Outputs, based on type AM26LS32                                   | 2002-10-31 |
| 9407/001 | 1 | 8-Bit High Speed Multiplying D/A Converter, based on type DAC08A  | 2002-10-31 |
| 9408/001 | 1 | 2-Channel High Speed Driver with SPST JFET Switches, based on type DG181                                      | 2002-10-31 |
| 9408/002 | 1 | 16-Channel CMOS Analogue Multiplexer, based on type HI506A  | 2002-10-31 |
| 9408/003 | 1 | Dual 8-Channel CMOS Analogue Multiplexer, based on type HI507A  | 2002-10-31 |
| 9408/019 | 1 | CMOS 16-Channel Multiplexer Radiation-Hardened, based on type HS1840RH  | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            56 IC'S SIL MON BI SCHOTTKY: 54 S SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/056 | 1 | Quad 2-Input Positive NAND Gates, based on type 54S00                               | 2002-10-31 |
| 9201/057 | 1 | Quad 2-Input Positive AND Gate with Open Collector Output, based on type 54S09      | 2002-10-31 |
| 9201/058 | 1 | Triple 3-Input Positive NAND Gate, based on type 54S10                              | 2002-10-31 |
| 9201/059 | 1 | Dual 4-Input Positive NAND Gate, based on type 54S20                                | 2002-10-31 |
| 9201/060 | 1 | 8-Input Positive NAND Gate, based on type 54S30                                     | 2002-10-31 |
| 9201/074 | 1 | Quad 2-Input Positive NOR Gate, based on type 54S02                                 | 2002-10-31 |
| 9201/077 | 1 | Dual 4-Input Positive NAND Gate with Open Collector Outputs, based on type 54S22    | 2002-10-31 |
| 9201/078 | 1 | Dual 2-Wide 2-Input AND-OR INVERT Gates, based on type 54S51                        | 2002-10-31 |
| 9201/079 | 1 | Quadruple 2-Input Exclusive OR Gate, based on type 54S86                            | 2002-10-31 |
| 9201/083 | 1 | Dual 5-Input Positive NOR Gate, based on type 54S260                                | 2002-10-31 |
| 9201/112 | 1 | Positive OR Gate, based on type 54S32   | 2002-10-31 |
| 9202/059 | 1 | 9-Bit Odd/Even Parity Generator/Checker, based on type 54S280                       | 2002-10-31 |
| 9203/026 | 1 | Dual D Positive Edge Triggered Flip-Flop with Preset and Clear, based on type 54S74 | 2002-10-31 |
| 9203/027 | 1 | Dual J-K Negative-Edge-Triggered Flip-Flop with Preset, based on type 54S113        | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            56 IC'S SIL MON BI SCHOTTKY: 54 S SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9203/028 | 1 | Dual J-K Negative Edge Triggered Flip-Flop with Preset and Clear, based on type 54S112 | 2002-10-31 |
| 9203/032 | 1 | Hex D-Type Flip-Flop with Clear, based on type 54S174                                  | 2002-10-31 |
| 9203/033 | 1 | Quadruple D-Type Flip-Flop with Clear, based on type 54S175                            | 2002-10-31 |
| 9203/041 | 1 | Octal D-Type 3-State Positive Edge-Triggered Flip-Flop, based on type 54S374           | 2002-10-31 |
| 9204/029 | 1 | Synchronous 4-Bit Binary Counter with Synchronous Clear, based on type 54S163          | 2002-10-31 |
| 9204/044 | 1 | Presetable Divide-by-2 and Divide-by-5 Counter, based on type 54S196                   | 2002-10-31 |
| 9306/024 | 1 | 4-Bit Parallel Access Shift Register, based on type 54S195                             | 2002-10-31 |
| 9306/031 | 1 | 4-Bit Bidirectional Universal Shift Register, based on type 54S194                     | 2002-10-31 |
| 9401/012 | 1 | Hex Inverter, based on type 54S04  | 2002-10-31 |
| 9401/015 | 1 | Quad 2-Input Positive NAND Buffer, based on type 54S37                                 | 2002-10-31 |
| 9402/004 | 1 | Dual 4-Input Positive NAND 50 Ohm Line Driver, based on type 54S140                    | 2002-10-31 |
| 9408/007 | 1 | 8-to-1 Line Data Selector/Multiplexer, based on type 54S151                            | 2002-10-31 |
| 9408/008 | 1 | 4-Line-to-1-Line Data Selector/Multiplexer, based on type 54S153                       | 2002-10-31 |
| 9408/010 | 1 | Decoder/Demultiplexer, based on type 54S138  | 2002-10-31 |

Specification Family :               INTEGRATED CIRCUITS

Class of Publication Code :         56 IC'S SIL MON BI SCHOTTKY: 54 S SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9408/020 | 1 | Data Selector/ Multiplexer with 3-State Outputs, based on type 54S251   | 2002-10-31 |
| 9408/042 | 1 | Quad 2-Line-to-1 Line Data Selectors/Multiplexers, based on type 54S158 | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        60 IC'S SIL MON BI ADVANCED LOW POWER SCHOTTKY 54ALS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/088 | 1 | Quad 2-Input Positive NAND Gates, based on type 54ALS00A  | 2002-10-31 |
| 9201/089 | 1 | Quad 2-Input Positive NOR Gates, based on type 54ALS02  | 2002-10-31 |
| 9201/091 | 1 | Quad 2-Input Positive OR Gates, based on type 54ALS32   | 2002-10-31 |
| 9201/092 | 1 | Quad 2-Input Positive AND Gates, based on type 54ALS08  | 2002-10-31 |
| 9201/093 | 1 | Triple 3-Input Positive NAND Gates, based on types 54ALS10 and 54ALS10A                             | 2002-10-31 |
| 9201/094 | 1 | Triple 3-Input Positive AND Gates, based on types 54ALS11 and 54ALS11A                              | 2002-10-31 |
| 9201/095 | 1 | Dual 4-Input Positive NAND Gates, based on type 54ALS20A  | 2002-10-31 |
| 9201/096 | 1 | Dual 4-Input Positive AND Gates, based on types 54ALS21 and 54ALS21A                                | 2002-10-31 |
| 9201/097 | 1 | Triple 3-Input Positive NOR Gates, based on type 54ALS27  | 2002-10-31 |
| 9201/098 | 1 | 8-Input Positive NAND Gates, based on types 54ALS30 and 54ALS30A                                    | 2002-10-31 |
| 9201/099 | 1 | Quadruple 2-Input Exclusive OR Gates, based on type 54ALS86   | 2002-10-31 |
| 9201/100 | 1 | Quad 2-Input Positive-NAND Buffer Gates with Increased Output Drive, based on type 54ALS37A & 1000A | 2002-10-31 |
| 9201/101 | 1 | Quad 2-Input Positive-NOR Buffer Gates with Increased Output Drive, based on types 54ALS28A & 1002A | 2002-10-31 |
| 9201/102 | 1 | Triple 3-Input Positive AND Buffer Gates with Increased Output Drive, based on type 54ALS1011A      | 2002-10-31 |

Specification Family : INTEGRATED CIRCUITS

Class of Publication Code : 60 IC'S SIL MON BI ADVANCED LOW POWER SCHOTTKY 54ALS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/104 | 1 | Quad 2-Input Positive AND Gates with Open Collector Outputs, based on type 54ALS09  | 2002-10-31 |
| 9201/115 | 1 | Quad 2-Input Positive-NAND Buffer Gates with Increased Output Drive and Open Collector Outputs, based on types 54ALS38/38A/1003/1003A | 2002-10-31 |
| 9201/116 | 1 | Dual 4-Input Positive-NAND Buffer Gates with Increased Output Drive, based on types 54ALS40A/1020A                                    | 2002-10-31 |
| 9202/067 | 1 | Octal D-Type Transparent Latches with 3-State Buffered Outputs, based on type 54ALS573  | 2002-10-31 |
| 9202/071 | 1 | Octal D-type Transparent Latches with 3-State Outputs, based on type 54ALS373   | 2002-10-31 |
| 9203/042 | 1 | Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54ALS574 & 574A  | 2002-10-31 |
| 9203/043 | 1 | Dual D-Type Positive-Edge-Triggered Flip-Flops with Clear and Preset, based on types 54ALS74 and 74A                                  | 2002-10-31 |
| 9203/046 | 1 | Dual 4-Bit D-Type Edge-Triggered Flip-Flops with 3-State Buffered Outputs, based on types 54ALS874 and 54ALS874A                      | 2002-10-31 |
| 9203/047 | 1 | Hex D-Type Positive Edge-Triggered Flip-Flops with Clear, based on type 54ALS174  | 2002-10-31 |
| 9203/048 | 1 | Quad D-Type Positive Edge-Triggered Flip-Flops with Clear, based on type 54ALS175   | 2002-10-31 |
| 9203/049 | 1 | Dual J-K Positive Edge-Triggered Flip-Flops with Clear and Preset, based on types 54ALS109 and 54ALS109A                              | 2002-10-31 |
| 9203/055 | 1 | Dual J-K Negative Edge-Triggered Flip-Flops with Clear and Preset, based on type 54ALS112A  | 2002-10-31 |
| 9203/056 | 1 | Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54ALS576   | 2002-10-31 |
| 9204/055 | 1 | Synchronous 4-Bit Binary Counters with Direct Clear, based on types 54ALS161A and 54ALS161B   | 2002-10-31 |

Specification Family : INTEGRATED CIRCUITS

Class of Publication Code : 60 IC'S SIL MON BI ADVANCED LOW POWER SCHOTTKY 54ALS

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9204/057 | 1 | Synchronous 4-Bit Binary Counter with Synchronous Clear, based on types 54ALS163A and 54ALS163B                  | 2002-10-31 |
| 9204/058 | 1 | Synchronous 4-Bit Up/Down Binary Counter (Dual Clock with Clear), based on type 54ALS193                         | 2002-10-31 |
| 9205/012 | 1 | 3-Line to 8-Line Decoders/Demultiplexers, based on type 54ALS138   | 2002-10-31 |
| 9205/025 | 1 | 3-Line to 8-Line Decoders/Demultiplexers with Address Latches and Inverted Outputs, based on type 54ALS137       | 2002-10-31 |
| 9209/003 | 1 | 8-Bit Identity Comparators, based on type 54ALS520   | 2002-10-31 |
| 9306/039 | 1 | 8-Bit Universal Shift/Storage Registers with Direct Overriding Clear and 3-State Outputs, based on type 54ALS299 | 2002-10-31 |
| 9401/021 | 1 | Quad 2-Input Positive AND Buffers with Increased Output Drive, based on types 54ALS1008 and 54ALS1008A           | 2002-10-31 |
| 9401/023 | 1 | Hex Inverters with Open Collector Outputs, based on types 54ALS05 and 54ALS05A                                   | 2002-10-31 |
| 9401/024 | 1 | Hex Inverters, based on types 54ALS04A and 54ALS04B  | 2002-10-31 |
| 9401/028 | 1 | Octal Buffers and Line Drivers with 3-State Outputs, based on types 54ALS241 and 54ALS241A                       | 2002-10-31 |
| 9401/029 | 1 | Octal Buffers and Line Drivers with 3-State Outputs, based on type 54ALS541                                      | 2002-10-31 |
| 9401/031 | 1 | Triple 3-Input Positive NAND Buffers with Increased Output Drive, based on type 54ALS1010A                       | 2002-10-31 |
| 9401/032 | 1 | Octal Buffers and Line Drivers with 3-State Outputs, based on type 54ALS240A                                     | 2002-10-31 |
| 9401/036 | 1 | Hex Inverter Buffers with Increased Output Drive, based on type 54ALS1004  | 2002-10-31 |



Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            60 IC'S SIL MON BI ADVANCED LOW POWER SCHOTTKY 54ALS

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9402/005 | 1 | Octal Buffers and Line Drivers with 3-State Outputs, based on types 54ALS244A and 54ALS244B  | 2002-10-31 |
| 9405/005 | 1 | Octal Bus Transceivers with 3-State Outputs, based on type 54ALS245A & 645A  | 2002-10-31 |
| 9405/009 | 1 | Octal Bus Transceivers with Independant Registers for A and B Buses True Data Paths and 3-State Buffered Outputs, based on type 54ALS646 | 2002-10-31 |
| 9405/018 | 1 | Quad Bus Transceivers with Inverted 3-State Outputs, based on type 54ALS242B   | 2002-10-31 |
| 9405/019 | 1 | Quad Bus Transceivers with 3-State Ouputs, based on type 54ALS243A   | 2002-10-31 |
| 9408/029 | 1 | 1-of-8 Data Selectors/Multiplexers, based on type 54ALS151   | 2002-10-31 |
| 9408/031 | 1 | Dual 4-Line to 1-Line Data Selectors/Multiplexers with 3-State Outputs, based on type 54ALS253   | 2002-10-31 |
| 9408/032 | 1 | Quad 2-Line to 1-Line Data Selector/Multiplexer with 3-State Outputs, based on type 54ALS257   | 2002-10-31 |
| 9408/033 | 1 | Quad 2-Line to 1-Line Data Selector/Multiplexer with 3-State Outputs, based on type 54ALS258   | 2002-10-31 |
| 9408/034 | 1 | Dual 4-Line to 1-Line Data Selector/Multiplexer with 3-State Outputs, based on type 54ALS353   | 2002-10-31 |

Specification Family : INTEGRATED CIRCUITS

Class of Publication Code : 68 HIGH SPEED CMOS 54HC SERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9201/121 | 4 | HCMOS Quad 2-Input Exclusive OR Gates, based on type 54HC386                                   | 2014-02-14 |
| 9201/122 | 4 | HCMOS Quad 2-Input Exclusive NOR-Gates with Open Drain Outputs, based on type 54HC266          | 2019-04-12 |
| 9201/124 | 3 | HCMOS Dual 4-Input OR Gates, based on type 54HC4072  | 2014-02-14 |
| 9201/129 | 3 | HCMOS Triple 3-Input OR Gates, based on type 54HC4075  | 2014-02-14 |
| 9201/130 | 3 | HCMOS Dual 4-Input NOR Gates, based on type 54HC4002   | 2014-02-14 |
| 9201/132 | 4 | HCMOS Quad 2-Input NAND Gates, based on type 54HCT00   | 2019-04-12 |
| 9201/133 | 4 | HCMOS Quad 2-Input NOR Gates, based on type 54HCT02  | 2019-04-12 |
| 9203/051 | 4 | HCMOS Dual J-K Negative-Edge-Triggered Flip-Flops with Preset AND Clear, based on type 54HC112 | 2014-02-14 |
| 9203/061 | 4 | HCMOS Dual J-K Negative Edge Triggered Flip-Flops with Preset AND Clear, based on type 54HC76  | 2019-04-12 |
| 9203/065 | 3 | HCMOS Quad 4-Bit Bistable Latches, based on type 54HC75  | 2014-02-14 |
| 9203/066 | 3 | HCMOS Octal D-Type Edge-Triggered Flip-Flops with 3 State Outputs, based on type 54HCT374      | 2014-02-14 |
| 9203/071 | 3 | HCMOS Dual Negative-Edge Triggered J-K Flip-Flops with Clear, based on type 54HC73             | 2014-02-14 |
| 9203/072 | 3 | HCMOS Dual J-K Negative-Edge-Triggered Flip-Flops with Direct Clear, based on type 54HC107     | 2014-02-14 |
| 9204/068 | 4 | HCMOS Synchronous 4-Bit Up/Down Decade Counter, based on type 54HC190                          | 2019-04-12 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            68 HIGH SPEED CMOS 54HC SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9204/072 | 4 | HCMOS 5-Stage Johnson Decade Counter/Divider, based on type 54HC4017  | 2019-04-12 |
| 9204/073 | 3 | HCMOS Synchronous 4-Bit Binary Counter, based on type 54HC163   | 2014-02-14 |
| 9204/077 | 4 | HCMOS Asynchronous Negative-Edge-Triggered 7-Bit Binary Counter, based on type 54HC4024                                       | 2019-04-12 |
| 9204/078 | 4 | HCMOS Dual 4-Bit Decade Counters, based on type 54HC390   | 2019-04-12 |
| 9204/079 | 4 | HCMOS 8-Bit Register Binary Counter, based on type 54HC592  | 2019-04-12 |
| 9204/080 | 4 | HCMOS 4-Bit Binary Counters with Clear, based on type 54HC4520  | 2019-04-12 |
| 9205/016 | 5 | HCMOS 3 Line to 8 Line Decoders/Demultiplexers, based on type 54HC238   | 2019-04-12 |
| 9205/020 | 4 | HCMOS 4 to 10 Line Decoders/Demultiplexers with Inverted Outputs, based on type 54HC42  | 2019-04-12 |
| 9205/022 | 4 | HCMOS 3 to 8 Line Decoders Demultiplexers with Inverted Outputs, based on type 54HCT138                                       | 2019-04-12 |
| 9207/008 | 4 | HCMOS Dual Positive OR Negative Edge Schmitt-Retriggerable Monostable Multivibrators with Clear Reset, based on type 54HC4538 | 2019-04-12 |
| 9306/053 | 3 | HCMOS 4-Bit PIPO Shift Register with Overriding Clear, based on type 54HC195  | 2014-02-14 |
| 9306/055 | 5 | HCMOS 8 Channel Multiplexer Register with 3-State Latches, based on type 54HC356  | 2019-04-12 |
| 9401/035 | 3 | HCMOS Octal Bus Buffers with 3-State Outputs, based on type 54HC241   | 2014-02-14 |
| 9401/045 | 3 | HCMOS Octal Buffers with Inverted 3-State Outputs, based on type 54HCT240   | 2014-02-14 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        68 HIGH SPEED CMOS 54HC SERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9401/046 | 3 | HCMOS Quad Bus Buffers with 3-State Outputs, based on type 54HC126                                  | 2014-02-14 |
| 9401/052 | 4 | HCMOS Hex Bus Buffers with 3-State Outputs, based on type 54HC365                                   | 2014-02-14 |
| 9401/054 | 4 | HCMOS Hex Bus Buffers with Inverted 3-State Outputs, based on type 54HC368                          | 2019-04-12 |
| 9401/055 | 3 | HCMOS Hex Inverters (Single Stage) with Unbuffered Outputs, based on type 54HCU04                   | 2014-02-14 |
| 9405/011 | 3 | HCMOS Quad Bus Transceivers with Inverted 3-State Outputs, based on type 54HC242                    | 2014-02-14 |
| 9405/012 | 3 | HCMOS Quad Bus Transceivers with 3-State Outputs, based on type 54HC243                             | 2014-02-14 |
| 9405/016 | 5 | HCMOS Octal Bus Transceivers with 3-State Outputs, based on type 54HC623                            | 2019-04-12 |
| 9408/058 | 3 | HCMOS Dual 4-Line to 1-Line Data Selectors/Multiplexers with 3-State Outputs, based on type 54HC253 | 2014-02-14 |
| 9410/016 | 4 | HCMOS 4-Word x 4 Bit Register File with 3-State Outputs, based on type 54HC670                      | 2019-04-12 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        75 ADVANCED CMOS 54ACSERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9201/125 | 3 | Advanced CMOS Quad 2-Input NAND Gates, based on type 54AC00          | 2005-12-21 |
| 9201/126 | 3 | Advanced CMOS Quad 2-Input AND Gates, based on type 54AC08           | 2005-12-21 |
| 9201/127 | 3 | Advanced CMOS Quad 2-Input OR Gates, based on type 54AC32            | 2005-12-21 |
| 9201/128 | 3 | Advanced CMOS Quad 2-Input NAND Gates, based on type 54ACT00         | 2005-12-21 |
| 9201/131 | 2 | Advanced CMOS Quad 2-Input and Gates, based on type 54ACT08          | 2005-12-15 |
| 9201/134 | 1 | Advanced CMOS Quad 2-Input NOR Gates, based on type 54ACT02          | 2002-10-31 |
| 9201/135 | 2 | Advanced CMOS Quad 2-Input OR Gates, based on type 54ACT32           | 2005-12-15 |
| 9201/136 | 2 | Advanced CMOS Quad 2-Input Exclusive-OR Gates, based on type 54AC86  | 2005-12-20 |
| 9201/137 | 1 | Advanced CMOS Dual 4-Input NAND Gates, based on type 54AC20          | 2002-10-31 |
| 9201/138 | 3 | Advanced CMOS Triple 3-Input AND Gates, based on type 54AC11         | 2005-12-21 |
| 9201/139 | 3 | Advanced CMOS Triple 3-Input NAND Gates, based on type 54AC10        | 2005-12-21 |
| 9201/140 | 1 | Advanced CMOS Quad 2-Input NOR Gates, based on type 54AC02           | 2002-10-31 |
| 9201/142 | 2 | Advanced CMOS Triple 3-Input AND Gates, based on type 54ACT11        | 2005-12-15 |
| 9201/143 | 3 | Advanced CMOS Quad 2-Input Exclusive-OR Gates, based on type 54ACT86 | 2005-12-21 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            75 ADVANCED CMOS 54ACSERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9203/067 | 1 | Advanced CMOS Hex D-Type Edge Triggered Flip-Flops with Clear, based on type 54AC174                      | 2002-10-31 |
| 9203/068 | 1 | Advanced CMOS Dual D-Type Positive Edge-Triggered Flip-Flops with Preset and Clear, based on type 54AC74  | 2002-10-31 |
| 9203/069 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54AC374          | 2002-10-31 |
| 9203/074 | 1 | Advanced CMOS Octal D-Type Transparent Latches with 3-State Outputs, based on type 54ACT373               | 2002-10-31 |
| 9203/075 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54AC574          | 2002-10-31 |
| 9203/076 | 1 | Advanced CMOS Octal D-Type Flip-Flops with Clock Enable, based on type 54AC377                            | 2002-10-31 |
| 9203/077 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with Clear, based on type 54AC273                    | 2002-10-31 |
| 9203/078 | 1 | Advanced CMOS Quad D-Type Edge-Triggered Flip-Flops with Clear, based on type 54AC175                     | 2002-10-31 |
| 9203/079 | 1 | Advanced CMOS Dual D-Type Positive Edge-Triggered Flip-Flops with Preset and Clear, based on type 54ACT74 | 2002-10-31 |
| 9203/080 | 1 | Advanced CMOS Dual J-K Positive Edge-Tiggered Flip-Flops with Preset and Clear, based on type 54ACT109    | 2002-10-31 |
| 9203/081 | 1 | Advanced CMOS Hex D-Type Edge-Triggered Flip-Flops with Clear, based on type 54ACT174                     | 2002-10-31 |
| 9203/082 | 1 | Advanced CMOS Quad D-Type Edge-Triggered Flip-Flops, based on type 54ACT175                               | 2002-10-31 |
| 9203/083 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with Clear, based on type 54ACT273                   | 2002-10-31 |
| 9203/084 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54ACT574         | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :        75 ADVANCED CMOS 54ACSERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9203/085 | 1 | Advanced CMOS Octal D-Type Edge-Triggered Flip-Flops with 3-State Outputs, based on type 54ACT374   | 2002-10-31 |
| 9203/086 | 1 | Advanced CMOS Dual J-K Positive Edge-Triggered Flip-Flops with Preset and Clear, based on type 54AC109  | 2002-10-31 |
| 9203/087 | 1 | Advanced CMOS Octal D-Type Transparent Latches with 3-State Outputs, based on type 54AC573  | 2002-10-31 |
| 9203/088 | 1 | Advanced CMOS Octal D-Type Transparent Latches with 3-State Outputs, based on type 54AC373  | 2002-10-31 |
| 9203/091 | 1 | Advanced CMOS Octal D-Type Transparent Latches with 3-State Outputs, based on type 54ACT573   | 2002-10-31 |
| 9204/075 | 1 | Advanced CMOS Synchronous 4-Bit Binary Counter, based on type 54ACT163  | 2002-10-31 |
| 9204/081 | 1 | Advanced CMOS Synchronous 4-Bit Binary Counter with Direct Clear, based on type 54AC161   | 2002-10-31 |
| 9204/082 | 1 | Advanced CMOS Synchronous 4-Bit Binary Counter, based on type 54AC163   | 2002-10-31 |
| 9204/083 | 1 | Advanced CMOS Synchronous 4-Bit Up/Down Binary Counter, based on type 54AC169   | 2002-10-31 |
| 9204/085 | 1 | Advanced CMOS Synchronous 4-Bit Binary Counter with Direct Clear, based on type 54ACT161  | 2002-10-31 |
| 9204/087 | 1 | Advanced CMOS Synchronous Presettable 4-Bit Decade Counter with Direct Clear, based on type 54ACT160  | 2002-10-31 |
| 9205/024 | 2 | Advanced CMOS Dual 2-Line to 4-Line Decoders/Demultiplexers with Inverted Outputs, based on type 54AC139                                      | 2005-12-20 |
| 9209/006 | 1 | Advanced CMOS 8-Bit Identity Comparator, based on type 54AC521  | 2002-10-31 |
| 9306/056 | 1 | Advanced CMOS 8-Input Universal Shift/Storage Registers with Common Parallel I/O Pins Direct Clear and 3-State Outputs, based on type 54AC299 | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            75 ADVANCED CMOS 54ACSERIES

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9306/057 | 1 | Advanced CMOS 8-Input Universal Shift/Storage Registers with Common Parallel I/O Inputs Direct Clear and 3-State Outputs, based on type 54ACT299 | 2002-10-31 |
| 9401/042 | 1 | Advanced CMOS Octal Bus Buffer with 3-State Outputs, based on type 54AC240   | 2002-10-31 |
| 9401/043 | 1 | Advanced CMOS Octal Bus Buffers with 3-State Outputs, based on type 54AC244  | 2002-10-31 |
| 9401/050 | 1 | Advanced CMOS Octal Bus Buffers with 3-State Outputs, based on type 54ACT244   | 2002-10-31 |
| 9401/051 | 1 | Advanced CMOS Hex Inverter, based on type 54AC04   | 2002-10-31 |
| 9401/053 | 1 | Advanced CMOS Hex Inverter Schmitt Trigger Inverters, based on type 54ACT14  | 2002-10-31 |
| 9401/056 | 1 | Advanced CMOS Octal Bus Buffers with 3-State Outputs, based on type 54ACT541   | 2002-10-31 |
| 9401/057 | 1 | Advanced CMOS Octal Bus Buffers with 3-State Outputs, based on type 54ACT240   | 2002-10-31 |
| 9401/058 | 1 | Advanced CMOS Octal Bus Buffers with 3-State Outputs, based on type 54AC541  | 2002-10-31 |
| 9401/059 | 1 | Advanced CMOS Hex Inverters, based on type 54ACT04   | 2002-10-31 |
| 9401/061 | 1 | Advanced CMOS Quad Bus Buffers with 3-State Outputs, based on type 54AC125   | 2002-10-31 |
| 9401/062 | 1 | Advanced CMOS Octal Bus Buffers with Inverted 3-State Outputs, based on type 54AC540   | 2002-10-31 |
| 9405/015 | 1 | Advanced CMOS Octal Bus Transceivers with 3- State Outputs, based on type 54ACT245   | 2002-10-31 |
| 9405/017 | 1 | Advanced CMOS Octal Bus Transceivers with 3-State Outputs, based on type 54AC245   | 2002-10-31 |



Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            75 ADVANCED CMOS 54ACSERIES

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9408/060 | 2 | Advanced CMOS 3 to 8 Line Decoders/Demultiplexers with Inverted Outputs, based on type 54ACT138                 | 2005-12-15 |
| 9408/061 | 1 | Advanced CMOS Dual 2-Line to 4-Line Decoders/Demultiplexers with Inverted Outputs, based on type 54ACT139       | 2002-10-31 |
| 9408/062 | 1 | Advanced CMOS Quad 2-Line to 1-Line Data Selectors/ Multiplexers with 3-State Outputs, based on type 54ACT257   | 2002-10-31 |
| 9408/063 | 3 | Advanced CMOS 3 to 8 Line Decoders/Demultiplexers with Inverted Outputs, based on type 54AC138                  | 2005-12-21 |
| 9408/066 | 1 | Advanced CMOS Quad 2- Line to 1-Line Data Selectors/ Multiplexers with Inverted Outputs, based on type 54ACT158 | 2002-10-31 |
| 9408/067 | 1 | Advanced CMOS 8-Line to 1-Line Data Selectors/Multiplexers, based on type 54AC151                               | 2002-10-31 |
| 9408/068 | 1 | Advanced CMOS Dual 4-Line to 1-Line Data Selectors/ Multiplexers, based on type 54AC153                         | 2002-10-31 |
| 9408/069 | 1 | Advanced CMOS Quad 2-Line to 1-Line Data Selectors/ Multiplexers, based on type 54AC157                         | 2002-10-31 |
| 9408/070 | 1 | Advanced CMOS 4-Line to 1-Line Data Selectors/Multiplexers with 3-State Outputs, based on type 54AC253          | 2002-10-31 |
| 9408/071 | 1 | Advanced CMOS Quad 2-Line to-1 Line Data Selectors/ Multiplexers with 3-State Outputs, based on type 54AC257    | 2002-10-31 |
| 9408/074 | 1 | Advanced CMOS Quad 2-Line to 1-Line Data Selectors/ Multiplexers with Inverted Outputs, based on type 54AC158   | 2002-10-31 |
| 9409/008 | 1 | Advanced CMOS Hex Schmitt Trigger Inverters, based on type 54AC14   | 2002-10-31 |

Specification Family :                INTEGRATED CIRCUITS

Class of Publication Code :            85 54HSC/54HST- SILICON ON SAPPHIRE HCMOS

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9201/144 | 1 | Silicon on Sapphire Monolithic HCMOS Quad 2-Input AND Gates, based on types 54HSC08 & 54HST08 | 2002-10-31 |
| 9201/145 | 1 | Silicon on Sapphire Monolithic HCMOS Quad 2-Input OR Gates, based on types 54HSC32 & 54HST32  | 2002-10-31 |
| 9401/063 | 1 | Silicon on Sapphire Monolithic HCMOS Hex Inverters, based on types 54HSC04 & 54HST04          | 2002-10-31 |

Specification Family :                    INTEGRATED CIRCUITS

Class of Publication Code :            89 LINEAR GAIN (9012/...)

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 9012/001 | 1 | Monolithic Microwave Integrated Circuit (MMIC) GaAs Travelling Wave Amplifier,based on Type P35-4150 | 2014-02-27 |

Specification Family : POLICY AND PROCEDURE DOCUMENTS

Class of Publication Code : 2 POLICY AND PROCEDURE DOCUMENTS

| Number |   | Specification Title                                 | Date       |
|--------|---|---|------------|
| 12201  | 1 | ESCIES Accreditation and Registrated User Procedure | 2018-01-29 |
| 12202  | 1 | ESCIES Contribution Procedure                       | 2018-01-29 |

Specification Family : OPTOELECTRONICS

Class of Publication Code : 50 OPTO ELECTRIC DEVICES: PHOTOCOUPLEDERS

| Number   |   | Specification Title                                      | Date       |
|----------|---|--|------------|
| 5401/001 | 1 | Opto-Isolators, based on types 3C91 and 3C92             | 2012-02-02 |
| 5401/003 | 1 | Opto Couplers Inverted Dual Channel, based on type 6N134 | 2012-02-02 |
| 5401/005 | 1 | Opto Couplers, based on type CNY18                       | 2012-02-02 |

Specification Family : OPTOELECTRONICS

Class of Publication Code : 55 OPTO ELECTRONIC DEVICES: EMITTERS

| Number   |   | Specification Title  | Date       |
|----------|---|--|------------|
| 5402/005 | 1 | Light Emitting Diode Infrared GaAlAs Hermetic, based on type OP224 | 2014-02-27 |

Specification Family : OPTOELECTRONICS

Class of Publication Code : 81 CCD PHOTOMOS AREA ARRAYS (9610/...)

| Number   |   | Specification Title   | Date       |
|----------|---|---|------------|
| 9610/001 | 1 | Charge Coupled Devices Silicon Photosensitive Area Array Image Sensor<br>286Linesx382Pixels, based on type TH7863A  | 2002-10-31 |
| 9610/002 | 1 | Charge Coupled Devices, Silicon, Photosensitive, Area Array, Image Sensor, 512 Lines<br>x 512 Pixels, Front Illuminated, Frame Transfer, Multi Pinned Phases, Based on Type<br>TH 7890M | 2011-11-17 |
| 9610/003 | 1 | Charge Coupled Devices, Silicon, Photosensitive, Area Array, Image Sensor, 286 Lines<br>x 382 Pixels, Based on Type Th 7863D  | 2002-10-31 |

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