

## **Electronic Information Products Classification and Explanations**

[Ministry of Information Industry]

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Electronic information products are defined [at Article 3(1)] of the Management Methods for Control of Pollution Caused by Electronic Information Products (hereinafter “Management Methods”). The defined electronic information products are grouped into ten major categories, within the definition of the scope of application of Management Methods. In order to help those concerned about the Management Methods to understand the definitions and implications of electronic information products, these electronic information products being applicable to Management Methods are sorted and annotated based on the Electronic Information Industry Classification used for electronic information economy index statistic, and given as follows:

### **Radar Equipment and Products**

#### **Radar Equipment**

- I. Command Automation System
- II. Radar and Accessory Equipment
  1. Ground Radar and Vehicle Borne Radar
  2. Airborne Radar, Space-borne Radar and Missile Radar
  3. Shipboard Radar

### **Communications Equipment and Products**

#### **Communications Transmission Equipment**

- I. Communications Transmitter
  1. Short Wave and Single Side Band Transmitter
  2. Long Wave and Ultra Long Wave Transmitter
  3. Short Wave Self-Adapting Transmitter
  4. Other Transmitters
- II. Communications Receiver
  1. Short Wave and Single Side Band Receiver
  2. Long Wave and Ultra Long Wave Receiver
  3. Digital Receiver
- III. Microwave Communications Equipment
  1. Microwave Transceiver Communications Equipment
  2. Microwave Terminal Set
  3. Microwave Antenna, Feed Line
  4. Other Microwave Equipment

IV. Application Products for Satellite

1. Antenna for Satellite Ground Station
2. Low Noise Amplifier for Satellite Ground Station
3. Up or Down Converter for Satellite Ground Station
4. High Power Amplifier for Satellite Ground Station
5. Terminal Set for Satellite Ground Station
6. Satellite Remote Sensing Reception Equipment
7. Satellite Navigational Positioning Reception Equipment
8. Satellite Meteorology Reception Equipment
9. Other Satellite Ground Stations and Antennas

V. Scatter Communications Equipment

1. Scatter Communications Terminal Set
2. Scatter Channel Machine
3. Scatter Communications Antenna

VI. Communications Navigation Direction Equipment

1. Aircraft Communications and Navigation Directive Equipment
2. Aeronautical Communications and Navigation Directive Equipment
3. Ground Communications and Navigation Directive Equipment
4. Other Communications and Navigation Directive Equipment

VII. Carrier Communications Equipment

1. Carrier Terminal
2. Carrier Repeater
3. Electric Power Carrier

VIII. Optical Communications Equipment

1. Fiber Optical Cable Terminal Set
2. Fiber Optical Cable Trunk Equipment
3. Fiber Optical Amplifier
4. Wavelength Division Multiplexer (WDM)
5. Cross Connection Equipment
6. Other Equipment

**Communications and Switch Equipment**

I. Switch

1. Stored-Program Control Switch (Excludes the Mobile Stored-Program Control Switch)
  - i. Office Switch
  - ii. Subset
  - iii. Asynchronous Transfer Mode (ATM) and Internet Protocol (IP) Switch
  - iv. Other
2. Telegraph Switching Equipment
3. Other Switches

II. User Access Device

1. Wireless Access Device
2. Cable Access Device

3. Fiber Optical Access Device
4. Access Terminal Device

### **Communications Terminal Device**

- I. Small / Medium Transceiver Broadcasting Station
  1. Short Wave Broadcasting Station
  2. Ultra Short Wave Broadcasting Station
  3. Short Wave Frequency-Hopping Broadcasting Station
  4. Ultra Short Wave Frequency-Hopping Broadcasting Station
  5. Single Side Band Broadcasting Station
  6. Other Transceiver Broadcasting Station
- II. Telephone Set
  1. Common Telephone Set
  2. Recording Telephone Set
  3. Video Telephone Set
  4. Cordless Telephone
  5. Card Insertion Telephone
  6. Coin Pay Phone
  7. Special Type Telephone (Includes Security and Underground Mining Telephones)
  8. Other Telephones
- III. Data Communications Equipment
  1. Facsimile Machine
  2. Data Set (Includes Mechanical, Electronic Typewriter)
  3. Digital Packet Switch and Packet Assembler and Disassembler (PAD)
  4. Other
- IV. Communications Electronic Countermeasure Equipment
  1. Communications Reconnaissance Equipment
  2. Communications Direction Finder Equipment
  3. Communications Jamming Equipment
  4. Communications Encryption Equipment
- V. Communications Navigation Vehicle
  1. Radio Communications Vehicle
  2. Wired Communications Vehicle
  3. Communications Countermeasures Vehicle
- VI. Communications Associated Device
  1. Primary Power Equipment
  2. Secondary Power Equipment
  3. Network Administration, Charging and Monitoring Equipment
  4. Diesel Engine for Communications
  5. Microwave Accessory Equipment
  6. Telephone Accessory Equipment
  7. Carrier Wave Accessory Equipment
  8. Wire Distributing Equipment

### **Mobile Communications Device**

- I. Digital Cellular Wireless Telephone System Device
  - 1. Base Station Device
  - 2. Base Station Antenna
  - 3. Direct Amplifying Station
  - 4. Switching Equipment
- II. Wireless Paging System Device
  - 1. Paging Base Station Device
  - 2. Other Paging Devices
- III. Trunking Mobile Communications System Device
  - 1. Base Station Device
  - 2. Base Station Antenna (for Dispatching or Dedicated Network Systems)
  - 3. Switching Equipment
- IV. Medium and Small Automatic Wireless Telephone System Device
  - 1. Switch Base Station Device
  - 2. Other Devices
- V. Device for Communications System Without A Central Controller

### **Mobile Communications Terminal Device**

- I. Mobile Communications Terminal
  - 1. GSM Mobile Phone
  - 2. CDMA Mobile Phone
- II. Other Mobile Communications Terminal
  - 1. Motor-Car Telephone
  - 2. Interphone
  - 3. Radio Paging Set
  - 4. Personal Access Phone System

### **Communications Equipment Repairing and Other Communications Equipment**

- I. Other Communications Associated Equipment
  - 1. Modem for Communications
  - 2. Distribution and Junction Device for Communications

## **Broadcast and Television Equipment Industry Products**

### **Broadcast and Television Programming, Transmitting, Transmission Equipment**

- I. Audio Frequency Programming and Studio Equipment
  - 1. Broadcast Dedicated Recording, Playback Device
  - 2. Audio Mixing Console
  - 3. Studio Monitor (Set)
- II. Audiovisual Program Production and Studio Equipment
  - 1. Television Recording and Broadcasting Central Equipment

2. Coverage Device
  3. Special Video Recorder
  4. Video Editing Device
  5. Broadcast and Television Photograph and Record Device
  6. Signal Generator
  7. Video Information Processing Equipment
  8. Television Signal Synchronous Machine
  9. Television Graphic and Text Processing System Device
- III. Broadcasting Transmitting Device
1. Short Wave Transmitter
  2. Medium Wave Transmitter
  3. Frequency Modulated Transmitter
  4. Digital Sound Broadcasting Transmitter
  5. Broadcast Transmission Antenna and Associated Equipment
- IV. Television Transmitting and Translation Equipment
1. Television Transmitter
  2. Television Transposer
  3. Ground Antenna
  4. Television Transmitting and Translation Associated Equipment
- V. Satellite Television Transmitting and Translation Equipment
1. Satellite Television Transmitting Equipment
  2. Satellite Television Translation Equipment
- VI. Cable Television Network Transporting Device
1. Cable Television Headend Equipment
  2. Fiber Optical Cable Transmission Equipment
  3. Cable Transmission Equipment

### **Broadcast and Television Reception Equipment and Equipment**

- I. Television Reception Equipment
1. Definite Purposed Projection Television Receiver
  2. Video Monitoring Machine
- II. Broadcast Reception Equipment
1. Broadcast Reception Equipment
  2. Broadcasting Reception Equipment for Motor Vehicle
- III. Satellite Broadcast Television Reception Equipment
1. Satellite Broadcast Television Reception Equipment
  2. Satellite Broadcast Television Receiving Antenna
  3. Satellite Broadcast Television Receiving High Frequency Head
  4. Integrated Satellite Broadcast and Television Receiving Machine
- IV. Cable Television Reception Equipment
1. User Terminal Equipment
  2. Cable Television Distribution System Equipment
  3. Cable Television Associated Equipment

- V. Professional Audio Record, Video Record and Playback Equipment
  - 1. Audio Frequency Power Amplification Device
  - 2. Recording Repeater
  - 3. Dedicated Phonograph
  - 4. Voice and Language Laboratory Equipment
- VI. Video Recording and Playback Device
  - 1. Television Compact Disc Playback Device
  - 2. Video Tape Recorder
  - 3. Video, Audio Frequency Coder
- VII. Broadcast and Television Receiving Equipment Fittings and Accessories
  - 1. Audio Frequency Electronic Amplifier
  - 2. Pick-Up
  - 3. Magnetic Head
  - 4. Transmitter (Speaker)
  - 5. Microphone
  - 6. Earphone
  - 7. Combined Speaker Set - Amplifier
  - 8. Other Accessories
  - 9. Definite Purposed Antenna
  - 10. Antenna Generator
  - 11. Antenna Rotor
  - 12. Mixer
  - 13. Allotter
  - 14. Splitter
  - 15. User Box

#### **Application Television Device and Other Broadcast and Television Devices**

- I. Application Television Device
  - 1. Universal Application Television Device
  - 2. Specific Environment Application Television Monitoring Device
  - 3. Specific Function Application Television Device
  - 4. Specific Type Application Television Device
- II. Other Broadcast and Television Devices
  - 1. Relief Television Equipment
  - 2. Multiplex Broadcasting Equipment
  - 3. Big Screen Color Display System
  - 4. Electronic Display Screen
  - 5. Touch Screen

#### **Computer Industry Products**

##### **Complete Set of Electronic Computers**

- I. Large or Medium-Scale Computer Work Station
  - 1. Large or Medium-Scale Computer (Note 1)

2. Mini Computer (Note 2)
3. Work Station
- II. Personal Computer Equipment
  1. Desktop Personal Computer
    - i. Business Personal Computer
    - ii. Household Personal Computer
  2. Server
  3. Industrial Computer
  4. Portable Personal Computer
    - i. Notebook PC
    - ii. Palmtop Computer
  5. Learning Machine
  6. Hand Held Information Terminal
    - i. Personal Digital Assistant (PDA)
    - ii. Electronic Instant-Dictionary
    - iii. Electronic Notepad
    - iv. Electronic Dictionary

#### **Computer Network Facility Industry**

- I. Network Controlling Device
  - i. Communications Controlling Processor
  - ii. Concentrator
  - iii. Final Controller
- II. Network Interface and Adapter
  - i. Network Transceiver
  - ii. Network Transponder
  - iii. Network Allotter
  - iv. Ethernet Exchanger
- III. Network Connecting Device
  - i. Hub
  - ii. Modem
  - iii. Network Phone (Internet Protocol Phone)
  - iv. Router
  - v. Firewall (Excludes the Software Firewall)
- IV. Network Testing Device
  - i. Protocol Analyzer
  - ii. Protocol Test Equipment
  - iii. Error Detecting Device

#### **Electronic Computer External Device**

- I. Display Terminal Device
  1. Chinese Character Display Terminal
  2. Graphic and Image Display Terminal

3. Display
  - i. Monochrome Display (CRT) (Includes Displays for Application Television)
  - ii. Color Display (CRT) (Includes Displays for Application Television)
  - iii. Flat Panel Display (Includes Liquid Crystal, PDP etc.)
- II. Input Device
  1. Plotter
  2. Digitizer
  3. Scanner
  4. Mouse
  5. Keyboard
  6. IC Card Read and Write Device
  7. Digital Camera
  8. Magnetic Card Read and Write Device
  9. Digital Pick Up Head
- III. Output Device
  1. Printing Device
    - i. Stylus Printer
      - a. Universal Stylus Printer
      - b. Ticket Printer
      - c. Line Printer
    - ii. Laser Printer
    - iii. Ink Jet Printer
    - iv. Multifunction Printer
  2. Audio Output Device
  3. Image and Graphic Output Device
- IV. External Memory Device
  1. Floppy Disk Drive
    - i. Common Floppy Disk Drive
    - ii. High Capacity Floppy Disk Drive
  2. Hard Disk Drive
    - i. Hard Disk Drive
    - ii. Disk Array
    - iii. Mobile Hard Disk
    - iv. Mini Mobile Hard Disk (U Disk)
  3. CD Disk Drive
    - i. Compact Disc Read-Only Memory Driver (CD-ROM)
    - ii. Digital Versatile Disc Read-Only Memory Driver (DVD-ROM)
    - iii. Digital Versatile Disc Rewritable Driver (DVD-RW)
    - iv. MO Driver
    - v. PD Driver
    - vi. Other Compact Disc Drivers
  4. Tape Transport
- V. Digital Information Product



1. Digital Memory, Record/Play Products
2. Public Information Automatic Service System
3. Other

### **Electronic Computer Associated Products and Materials**

- I. Boards and Cards for Microprocessors
  1. Microprocessor Motherboard
  2. Memory Bank
  3. Sound Card
  4. Display Card
  5. Network Card
  6. Other Functional Cards and Interface Cards
- II. Power Supply
  1. Power Switch
  2. UPS Power Supply
- III. Other Associated Products and Consumable Materials
  1. Cabinet
  2. Floppy Disk
  3. Compact Disc
  4. Printer Head
  5. Ink Cartridge
  6. Magnetic Card
  7. IC Card
  8. Ribbon
  9. Drum

### **Electronic Computer Application Products**

- I. Electronic Publishing System
  1. Professional Image-setting System
  2. Quickprint System
- II. Computer Assisted Instruction System
- III. Calculator
- IV. Electronic Application Products for Finance, Commerce, Taxation Affairs
  1. Automatic Banknote Machine
  2. Coin Counting Machine
  3. Recounting Machine
  4. Automatic Teller Machine (ATM)
  5. Finance Self-Service Online Terminal
  6. POS Machine
  7. Tax Control Meter for Fueling Machine
  8. Tax Control Meter for Taxi
  9. Other Finance Application Products
- V. Other Application Products

1. Computer Controlling Bus Station Announcer
2. Car Video Equipment
3. Phone Bill Metering Apparatus
4. Other Computer Application Products

### **Household Electronic Products**

#### **Television**

- I. Television
  1. Color Television
    - i. 37 cm
    - ii. 44 cm
    - iii. 47 cm
    - iv. 49 cm
    - v. 51 cm
    - vi. 53 cm
    - vii. 56 cm
    - viii. 64 cm
    - ix. 74 cm
    - x. More Than 74 cm
  2. Projection Television Receiver
    - i. Rear-Projection Television
    - ii. Front-Projection Television
  3. PDP Television
  4. Black and White TV Set
    - i. 11 cm
    - ii. 14 cm
    - iii. 31 cm
    - iv. 35 cm
    - v. 44 cm
    - vi. More Than 44 cm
  5. LCD Television

#### **Vidicon, Video Cassette Recorder and Laser Compact Disc Player**

- I. Video Cassette Recorder
  1. Video Recorder / Player
  2. Video Player
  3. Household Video Recorder / Player
- II. Radio Record Player
  1. Mini Player (Excludes Record Player)
  2. Radio Record Player (Includes Record Player)
  3. Cyclic Player
- III. Digital Laser, Audio and Video Compact Disc Player
  1. VCD Player

2. VCD Recorder / Player
3. DVD Audio Player
4. DVD Video Player
5. DVD Video Recorder / Player
6. Compact Disc Recorder (Includes CD-R and DVD-R)
7. Compact Disc Rewritable Recorder (As Above)

### **Household Electronic Acoustics Appliance**

#### **I. Household Acoustics Appliance**

1. Radio Set
  - i. Mini Radio Set
  - ii. Other
2. Music Center
3. MP3, MP4 Player
4. CD Player
5. Power Amplifier

#### **II. Car Electronic Acoustics Appliance**

#### **III. Main Fittings and Accessories for Household Electronics and Electrical Appliance**

1. Tuner
  - i. Electronic Tuner
  - ii. Mechanical Tuner
2. Line Output Transformer
3. Deflecting Coil
4. Core for Audio Recorder and Video Recorder
  - i. Audio Recorder Core
  - ii. Video Recorder Core
  - iii. Compact Disc Player Core
  - iv. Core for Video Compact Disc and Digital Video Disc Player
5. Magnetic Head
  - i. Recording Head
  - ii. Video Head
  - iii. Hard Disk Driver Magnetic Head
  - iv. Floppy Disk Driver Magnetic Head
  - v. Tape Drive Magnetic Head
  - vi. Other Magnetic Heads
6. Optical Head
  - i. Optical Head for Audio Player
  - ii. Optical Head for Video Player
  - iii. Optical Head for Read-Only Memory (ROM)
  - iv. Optical Head for Laser Recorder
  - v. Other
7. Antenna
  - i. Whip Antenna

- ii. Indoor Aerial
- iii. Other
- 8. Magnetic Tape
  - i. Audio Tape
  - ii. Video Tape
- 9. Audio and Video Compact Disc
  - i. Laser Audio Compact Disc (CD)
  - ii. Laser Video Compact Disc (VCD)
  - iii. Laser Digital Video Compact Disc (DVD)
  - iv. Other
- 10. Magnetic Drum for Audio and Video Recorder
- 11. Switch Power for VCD and DVD Players
- 12. Television Receiver Set-Top Box
  - i. Cable TV Set-Top Box
  - ii. Ground Broadcasting Set-Top Box
  - iii. Satellite Broadcasting Set-Top Box

### **Electronic Measuring Instrument Products**

#### **Electronic Measuring Instrument**

- I. Frequency Measuring Instrument
  - 1. Digital Pulse Frequency Meter
  - 2. Simulation Frequency Meter
  - 3. Counter
  - 4. Counter Spread Spectrum Device
  - 5. Time Measuring Apparatus
  - 6. Special Type Counter
  - 7. Frequency Standard
  - 8. Frequency/Phase Comparator
- II. Voltage Measuring Apparatus
  - 1. Oscillograph
    - Including: Digital High Frequency Voltmeter
  - 2. Digital Multimeter
  - 3. Voltage Source Standard Device
  - 4. Simulation Voltmeter
    - Including: Digital High Frequency Voltmeter
  - 5. Digital Panel Meter
  - 6. Other
- III. Oscillograph
  - 1. Digital Readout and Digital Store Oscillograph
  - 2. Universal Oscillograph
  - 3. Sampling, Storage and Memory Oscillograph
  - 4. Other Oscillograph Logic Analyzer

5. Dedicated Oscillograph
6. Oscillograph Regulator
- IV. Device Parameter Measuring Apparatus
  1. Digital IC Tester
  2. Mixing IC Tester
  3. Photoelectric Device Tester
  4. Power Electronic Device Tester
  5. Semiconductor Device Graphic Instrument
  6. Other
- V. Element Parameter Measuring Apparatus
- VI. Pulse Measuring Apparatus
- VII. Scan, Frequency Spectrum Waveform Analyzer
  1. Sweep Generator
  2. Spectrum Analyzer
  3. Distortion Degree Measuring Apparatus
  4. Frequency Deviation Modulation Measuring Instrument
  5. Phase Shifter
  6. Other
- VIII. Microwave Measuring Apparatus
  1. Network Characteristic Tester and Network Analyzer
  2. Radar Combination Tool
  3. Microwave Power Amplifier
  4. Microwave Leakage Tester
  5. Other Microwave Instruments
  6. Microwave Measuring Instrument Components
    - i. Microwave Attenuator
    - ii. Microwave Filter
    - iii. Waveguide
    - iv. Other Microwave Elements
- IX. Communications Measuring Instrument
  1. Carrier Communications Measuring Apparatus
  2. PDH / SDH Transmission Analyzer
  3. Analog / Digital Mobile Communications Base and Mobile Station
- X. Broadcast and Television Measuring Instrument
- XI. Ultra Low Frequency Measuring Apparatus
  1. Ultra Low Frequency Signal Analyzer
  2. Frequency Response Analyzer
  3. Ultra Low Frequency Generator
  4. Voltmeter
  5. Filter and Amplifier
  6. Phase Meter
  7. Other
- XII. Acoustical Measuring Instrument

1. Power Supply, Sonic Boom Signal Generator
2. Sound Level Meter
3. Frequency Multiplication Filter
4. Electroacoustic Generator
5. Vibration Pulse Shock Measuring Instrument
6. Sound Vibration Calibration Device
7. Sonic Boom Carpet Whole Set
8. Other Sonic Devices

XIII. Interference Field Strength Meter

1. Interference Field Strength Meter
2. Testing Receiver
3. Other Measuring Instruments

XIV. Stabilized Voltage Power Supply

1. Direct Current Stabilized Voltage Power Supply
2. Alternating Current Stabilized Voltage Power Supply
3. Stabilized Current and Voltage Power Supply
4. High Reliable Elements, Measuring Preparing Power Supply
5. Klystron Power Supply
6. Pulse Power Supply
7. Inverter Power Supply
8. Laser Power Supply
9. Emergency Power Supply
10. Other Power Supplies

XV. Recorder and Display

1. Recorder
2. Display

XVI. Signal Generator

1. Low Frequency Signal Generator
2. High Frequency Signal Generator
3. Ultra High Frequency Signal Generator
4. Microwave Signal Generator
5. Power Signal Generator
6. Scan Signal Generator
7. Frequency Synthesizer Signal Generator
8. Power Amplifiers
9. Digital Signal Generator
10. Other

XVII. Power Meter

1. Small Power Meter
2. Medium Power Meter
3. High Power Meter
4. Pulse Power Meter
5. Laser Power Meter

## XVIII. Other Measure Instrument

1. Crystal Oscillator
2. Breakdown Device
3. Standard Inductor Capacitor Resistor
4. Heat Distribution Map Meter
5. Air Target Trainer
6. Solderability Tester
7. Laser Distance Measuring Instrument
8. Hydroacoustic Device
9. Atom Radial Instrument
10. Meteorological Instruments

**Electronic Industry Dedicated Equipment and Products****Electronic Industry Dedicated Equipment**

- I. Semiconductor Device and Integrated Circuit Dedicated Equipment
  1. Semiconductor Preparation, Epitaxy and Chemico-Mechanical Polishing
  2. Exposure, Corrosion, Gel Homogeneity and Developing Equipment
  3. Diffusion, Ion Implantation and Quick Heat Treatment Equipment
  4. Chemical, Physical, Vapor Disposition and Copper Plating Equipment
  5. Subsequent Assembling and Package Producing Equipment
  6. Online Process Testing Equipment
  7. Intermediate and End Product Testing Equipment
  8. Other
- II. Electronic Vacuum Device Dedicated Equipment
  1. Electron Tube Producing Equipment
  2. Electric Light Source Producing Equipment
  3. Liquid Crystal Display Device Producing Equipment
  4. Vacuum Switching Tube Producing Equipment
  5. Kinescope and Electron Gun Producing Equipment
  6. Other
- III. Electronic Elements Dedicated Equipment
  1. Resistor, Potentiometer Producing Equipment
  2. Capacitor Producing Equipment
  3. Ceramic Elements Producing Equipment
  4. Magnetic Materials and Elements Producing Equipment
  5. Printed Circuit Board Producing Equipment
  6. Cable Producing Equipment
  7. Sensing Elements and Devices, and Sensor Producing Equipment
  8. Frequency Elements and Devices Producing Equipment
  9. Green Battery Producing Equipment
  10. Other
- IV. Electronic Components Assembling Equipment

1. Automatic Slice Inserting Machine
  2. Automatic Chip Mounter Machine
  3. Assembly Production Line
  4. Wave-Soldering and Reflow Welding Device
  5. Surface Mount Printing Equipment
  6. Other
- V. Electronic Universal Equipment
1. Vacuum Obtaining Equipment
  2. Ultrasonic Wave Equipment
  3. Precision Welding Equipment
  4. Drying Equipment
  5. Air Conditioner
  6. Plastic Processing Equipment
  7. Electronic Machining Equipment
  8. Presswork Equipment
  9. Precision Electronic Silk Screen Printing Equipment
  10. Anti Static Series Products
  11. Cleaning Equipment
  12. Other

#### **Electronic Industry Mold and Gear**

- I. Electronic Industry Mold and Gear
1. Mold
  2. Die Carrier
  3. Mold Standard Component
  4. Pneumatic Tool
  5. Electric Tool
  6. Soldering Tool

### **Electronic Element Products**

#### **Electronic Element and Component**

- I. Capacitor
1. Paper Capacitor
    - i. Metallizing and Metal Foil Paper Capacitor
    - ii. Paper Based Composite Dielectric Capacitor
  2. Film Capacitor
    - i. Polyester Film Capacitor
    - ii. Polypropylene Film Capacitor
    - iii. Polystyrene Capacitor
    - iv. Polycarbonate Capacitor
    - v. Polytetrafluoroethylene Capacitor



- vi. Polyimide Capacitor
- vii. Chip Organic Dielectric Capacitor
- viii. Other Organic Dielectric Film Capacitor
- 3. Ceramic Capacitor
  - i. Low Voltage Ceramic Capacitor (Lower Than 500V)
  - ii. High Voltage Ceramic Capacitor (Higher Than 500V)
  - iii. Alternating Current Ceramic Capacitor
  - iv. Ceramic Chip Capacitor
- 4. Double Electric Layer Capacitor
- 5. Foil Mica Capacitor
- 6. Glass Glaze Capacitor
- 7. Aluminum Electrolytic Capacitor
  - Including: Chip Aluminum Electrolytic Capacitor
- 8. Tantalum Electrolytic Capacitor
  - Including: Chip Tantalum Electrolytic Capacitor
- 9. Columbium Electrolytic Capacitor
- 10. Other Electrolytic Capacitors
- 11. Variable Capacitor
  - i. Air Variable Capacitor
  - ii. Film Variable Capacitor
  - iii. Glass Glaze Trimmer Capacitor
  - iv. Magnetism Trimmer Variable Capacitor
- 12. Vacuum Capacitor
  - i. Fixed Glass, Ceramic Vacuum Capacitor
  - ii. Variable Vacuum Capacitor
  - iii. Fine Adjustment Vacuum Capacitor
  - iv. Other Vacuum Capacitors
- 13. Other Capacitors
- 14. Capacitor Network
- II. Resistors and Potentiometers
  - 1. Fixed Resistor
    - i. Carbon Film Resistor
    - ii. Metal Film Resistor
    - iii. Metal Oxide Film Resistor
    - iv. Glass Glaze Resistor
    - v. Wire Wound Resistor
    - vi. Compound Film Resistor
    - vii. Solid Resistor
    - viii. Glaze Resistor
    - ix. Chip Resistor
    - x. Fusible Resistor
    - xi. Microstrip Resistor
    - xii. Other Resistors

2. Potentiometer
    - i. Wire Wound Potentiometer
    - ii. Carbon Film Potentiometer
    - iii. Solid Core Potentiometer
    - iv. Glass Glaze Potentiometer
    - v. Metal Film Potentiometer
    - vi. Conductive Plastic Potentiometer
    - vii. Chip Potentiometer
    - viii. Preset Potentiometer
    - ix. Sensitive Potentiometer
    - x. High Voltage Focus Potentiometer
  3. Resistance Attenuator
  4. Other Resistors, Potentiometers
  5. Resistive Network
- III. Electrical Connector Element
1. Low Frequency Connector
    - i. Circular Connector
    - ii. Rectangle Connector
    - iii. Printed Circuit Connector
    - iv. Bar Connector
    - v. Ribbon Cable Connector
    - vi. Plug Jack
    - vii. Chip Low Frequency Connector
    - viii. Other Low Frequency Connectors
    - ix. Low Frequency Connector Cable Set
  2. Radio Frequency Connector
    - i. Universal Radio Frequency Connector
    - ii. High Power Pulse and High Pressure Radio Frequency Connector
    - iii. Chip Radio Frequency Connector
    - iv. Other Radio Frequency Connectors
    - v. Radio Frequency Connector Cable Components
  3. Optical Cable Connector
  4. Other Connectors
  5. Switch
    - i. Rotary Switch
    - ii. Push Button Switch
    - iii. Assembled Push-Button Switch
    - iv. Keyboard Switch
    - v. Tiny Switch
    - vi. Button Switch
    - vii. Dual In-Line Package Switch
    - viii. Sliding Switch
    - ix. Membrane Switch

- x. Leaf Switch
- xi. Light Passive Components
- xii. Other Switches
- 6. Base (Plug in Type)
  - i. Integrated Circuit Jack
  - ii. Semiconductor Discrete Device Jack
  - iii. Kinescope Jack
  - iv. Resistance Tube Jack (Includes Metal and Ceramic Tubes)
  - v. Relay Jack
  - vi. Resonator Jack
  - vii. Battery Jack
  - viii. Other Electronic Element Jacks
- IV. Control Elements
  - 1. Relay
    - i. Direct Current Electromagnetic Relay
    - ii. Magnetic Latching Relay
    - iii. Polarized Relay
    - iv. Alternating Current Electromagnetic Relay
    - v. Temperature Relay
    - vi. Coaxial Relay
    - vii. High Frequency Relay
    - viii. Vacuum Relay
    - ix. Solid State Relay
    - x. Dry Reed Relay
    - xi. Mercury Reed Relay
    - xii. Time Delay Relay
    - xiii. Contact Relay
    - xiv. Car Relay
    - xv. Chip Relay
    - xvi. Other Relays
  - 2. Chopper
  - 3. Sensor
- V. Magnetic Material Inductance Transformer
  - 1. Metal Soft Magnetic Element
    - i. ALSiFe Powder Core
    - ii. Fe-C Powder Core
    - iii. FeNiMo Powder Core
  - 2. Ferrite Soft Magnetic Element
    - i. Screw-Shaped Magnetic Core
    - ii. Box-Shaped Magnetic Core
    - iii. E-Shaped Magnetic Core (EC, EI, ELD-Type)
    - iv. U-Shaped Magnetic Core
    - v. Cup-Shaped Magnetic Core

- vi. Tube Magnetic Core
  - vii. Column Magnetic Core
  - viii. Pot Magnetic Core (Includes Diamond-Shaped, X-Shaped, Rectangle-Shaped)
  - ix. Toroid Magnetic Core
  - x. Intermediate Frequency Transformer Magnetic Core
  - xi. Deflecting Magnetic Core
  - xii. Double-hole, Multihole Magnetic Core
  - xiii. Antenna Magnetic Core
  - xiv. Other Magnetic Cores
- 3. Ferrite Permanent Magnetic Element
    - i. Barium Ferrite Permanent Magnetic Element
    - ii. Strontium Ferrite Permanent Magnetic Element
    - iii. Tile Magnet for Motor
    - iv. Bonded Ferrite Element
  - 4. Permanent-Magnetic Alloy
    - i. Aluminum Nickel Cobalt Magnet Steel
    - ii. Mishima Magnet Steel
    - iii. Samarium Cobalt Magnet Steel (Includes Samarium Praseodymium Cobalt Magnet Steel)
    - iv. Neodymium, Iron and Boron Permanent Magnet
    - v. Bonded Thulium Permanent Magnet
    - vi. Other Alloy Permanent Magnet
  - 5. Inductor
    - i. Variable Inductor
    - ii. Fixed and Color Code Inductor
    - iii. Series Multilayer Chip Inductor
    - iv. Wire Wound Chip Inductor
    - v. LC Filter
  - 6. Microwave Device
    - i. Microwave Ferrite Single Crystal Oscillator
    - ii. Microwave Ferrite Circulator
    - iii. Microwave Ferrite Isolator
    - iv. Microwave Ferrite Amplitude Limiter
    - v. Microwave Ferrite Filter
    - vi. Microwave Ferrite Switch
    - vii. Other Microwave Magnetism Devices
  - 7. Electronic Transformer
    - i. Medium Frequency Transformer
    - ii. Audio Frequency Transformer
    - iii. Pulse Transformer
    - iv. Power Transformer
    - v. Switching Mode Power Supply Transformer
    - vi. Chip Transformer

- vii. Other Electronic Transformers
  - 8. Coil
    - i. Degaussing Coil
    - ii. Other Coils
- VI. Electroacoustic Device
  - 1. Communications Electroacoustic Device
    - i. Telephone Transmitter
    - ii. Receiver
    - iii. Assembly Parts
  - 2. Microphone
    - i. Capacitor Microphone
    - ii. Moving Coil Microphone
    - iii. Electret Microphone
    - iv. Wireless Microphone
    - v. Other Microphones
  - 3. Speaker
    - i. Horn Speaker
    - ii. Direct Radiation Speaker
    - iii. Dome Speaker
    - iv. Car Speaker
    - v. Other Speakers
  - 4. Sound Box and Column for Speaker
    - i. Sound Column Speaker
    - ii. Speaker for Movie Player
    - iii. Household Speaker
    - iv. High Fidelity Speaker
    - v. Monitoring Speaker
    - vi. Computer Speaker
    - vii. Other Speakers
  - 5. Earphone
    - i. Broad Band High Fidelity Stereophonic Headphone
    - ii. Stereophonic Headphone
    - iii. Non-stereophonic Headphone
    - iv. Mini-size Stereophonic Headphone
    - v. Earplug
    - vi. Infrared Earphone
  - 6. Pick-Up
  - 7. Buzzer
  - 8. Buzzer Sheet
- VII. Element for Frequency Control and Selection
  - 1. Piezoelectric Ceramic and Frequency Element
    - i. Piezoelectric Ceramic Filter
    - ii. Piezoelectric Ceramic Resonator

- iii. Piezoelectric Ceramic Discriminator
  - iv. Chip Piezoelectric Ceramic Device
  - v. Tuning fork
  - vi. Surface Acoustic Wave Filter
  - vii. Surface Acoustic Wave Oscillator
  - viii. Chip Surface Wave Device
  - ix. Microwave Medium Device
  - x. Various Types of Delay Lines
2. Piezoelectric Quartz Crystal Device
    - i. Piezoelectric Quartz Crystal Resonator
    - ii. Piezoelectric Quartz Crystal Filter
    - iii. Piezoelectric Quartz Crystal Oscillator
    - iv. Chip Piezoelectric Quartz Crystal Device

#### VIII. Other Elements and Parts

1. Electronic Ceramic Part
  - i. Carbon Film Resistance Ceramic Part
  - ii. Metal Film Resistance Ceramic Part
  - iii. Capacitor Ceramic Part
  - iv. Alumina Ceramic Part
  - v. Beryllium Oxide Ceramic Part
  - vi. Ceramic and Glass Insulator
  - vii. Other Ceramic Parts
  - viii. Ceramic Substrate for Chip Resistor
  - ix. Ceramic Substrate for Thick Film Integrate Circuit
  - x. Ceramic Substrate for Potentiometer
  - xi. Other
2. Panel Element
3. Absorber
4. Selenium Pile and Selenium Slice
5. Fastener
6. Quartz Crystal Device and Relay Package or Tube Socket
7. Electroacoustic Components and Parts

#### Electronic Printed Circuit Board

- I. Electronic Printed Circuit Board
  1. Single-Sided Printed Circuit Board
  2. Double-Sided Printed Circuit Board
  3. Multilayer Printed Circuit Board
  4. Flexible Printed Circuit Board
  5. Rigid and Flexible Printed Circuit Board
  6. Carbon Film Printed Circuit Board

#### Sensing Element and Sensor

- I. Sensing Element
  1. Force Sensor
  2. Voltage Dependent Resistor
  3. Optical Sensor
  4. Temperature Sensor
  5. Magnetism Sensor
  6. Humidity-Dependent Sensor
  7. Gas Sensor
    - Electronic Plastic Part (I3070)
    - Electronic Plastic Part

### Electronic Device Industry

#### Vacuum Electron Device

- I. Electron Tube
  1. Receiving Amplifier Tube
    - i. Filamentary Miniature Tube
    - ii. Cathode Heater Bantam Tube
    - iii. Frame Grid Bantam Tube
    - iv. Subminiature Tube
    - v. Octal Tube
    - vi. Peanut Tube
  2. Loctal Tube
  3. Transmitting Tube
    - i. Medium and Small Power Glass Transmitting Tube
    - ii. Medium and Small Power Ceramic Transmitting Tube
    - iii. High Power Glass Transmitting Tube
    - iv. High Power Ceramic Transmitting Tube
    - v. Modulation Valve
  4. Ultra High Frequency Tube
    - i. Magnetron
    - ii. Microwave Gas Discharge Tube
    - iii. Klystron
    - iv. Backward Wave Tube
    - v. Traveling Wave Tube
    - vi. Noise Tube
    - vii. Lighthouse Tube
    - viii. Small Ceramic Tube
    - ix. Pencil Tube
    - x. Antenna Switch Tube
    - xi. Solid Discharge Tube
  5. Stabilizer Tube
    - i. Voltage Regulator Tube
    - ii. Anemostat

- iii. Fixed Amplitude Tube
- II. Electron Beam Tube
  - 1. White and Black Kinescope
    - i. Less Than 31cm
    - ii. 31 cm
    - iii. 35 cm
    - iv. 44 cm
    - v. More Than 44 cm
  - 2. Color Picture Tube
    - i. 37 cm
    - ii. 47 cm
    - iii. 49 cm
    - iv. 51 cm
    - v. 54 cm
    - vi. 56 cm
    - vii. 64 cm
    - viii. 74 cm
    - ix. Other
  - 3. Other Electron Beam Tubes
    - i. Projection Tube
    - ii. Monitoring Tube (Display Tube)
    - iii. Oscilloscope Tube
    - iv. Storage Tube
    - v. Pulse Forming Tube
    - vi. Flying Spot Tube
  - 4. Ionic Tube
    - i. Thyatron
    - ii. Rectifying Valve
    - iii. Discharge Tube
    - iv. Decade Counter Tube
    - v. Cold Cathode Trigger Tube
    - vi. Ultraviolet Light Sensing Tube
  - 5. Laser Counter Tube
  - 6. X-Ray Tube
    - i. Medical X-Ray Tube
    - ii. Industry X-Ray Tube
    - iii. Rotary Anode X Ray Tube
  - 7. Vacuum Switching Tube
    - i. High and Medium Pressure Vacuum Switching Tube (3-36 KV)
    - ii. Low Pressure Vacuum Switching Tube (Less Than 3 KV )
  - 8. Other Electronic Vacuum Devices
  - 9. Kinescope Fittings
    - i. Parts for Black and White Color Picture Tube Electron Gun



- ii. Parts for Color Picture Tube Electron Gun
- iii. Glass Bulb for Black and White Kinescope
  - a. Less Than 31 cm
  - b. 31 cm
  - c. 35 cm
  - d. 44 cm
  - e. Other
- iv. Glass Bulb for Color Picture Tube
  - i. 37 cm
  - ii. 47 cm
  - iii. 49 cm
  - iv. 51 cm
  - v. 54 cm
  - vi. 56 cm
  - vii. 64 cm
  - viii. 74 cm
  - ix. Other
- v. Shadow Mask for Color Picture Tube
  - i. 37 cm
  - ii. 47 cm
  - iii. 49 cm
  - iv. 51 cm
  - v. 54 cm
  - vi. 56 cm
  - vii. 64 cm
  - viii. 74 cm
  - ix. Other

### III. Electric Light Source

- 1. High Pressure Sodium Vapor Lamp
- 2. Halogen Lamp
- 3. Lamp for Car
- 4. Fluorescent Lamp
- 5. Electricity Saving Lamp
- 6. Other

### Photoelectric Device and Other Electronic Device

- I. Display Module
  - 1. PDP
  - 2. LCD
- II. Electron Beam Photoelectric Device
  - 1. Photoelectric Cell
  - 2. Photomultiplier
  - 3. X-Ray Image Intensifier Tube

4. Electron Multiplier Tube
5. Pickup Tube
6. Photoelectric Image Device
- III. Electric Vacuum Photoelectron Device
  1. Displaying Device
  2. Illuminating Device
  3. Photosensing Device
  4. Photoelectric Coupling Device
  5. Infrared Device
  6. Laser Device
- IV. Semiconductor Photoelectric Device
  1. Photoelectric Coupling Device
    - i. Charge Coupled Device (CCD)
    - ii. Other Photoelectric Coupling Devices
  2. Photoelectric Detecting Device
    - i. Photodiode
    - ii. Phototriode
    - iii. Other Photoelectric Detecting Devices
  3. Light Emitting Diode
    - i. Infrared Light Emitting Diode
    - ii. Red Light Emitting Diode
    - iii. Yellow Light Emitting Diode
    - iv. Orange Light Emitting Diode
    - v. Green Light Emitting Diode
    - vi. Blue Light Emitting Diode
    - vii. Digitron Components
    - viii. Other Light Emitting Diodes
  4. Laser Device
    - i. Semiconductor Laser Device
    - ii. Solid State Laser Device
    - iii. Other Laser Devices
- V. Photo Communications Device
  1. Photo Communications Active Device
  2. Other Photo Communications Devices
- VI. Other Semiconductor Photoelectric Devices

**Semiconductor Discrete Device**

- I. Semiconductor Diode
  1. Germanium Diode
  2. Silicon Diode
    - i. Silicon Commutate Diode
    - ii. Silicon Switch Diode
    - iii. Silicon Steady Press Diode

- iv. High Voltage Silicon Stack
- v. Bridge Rectifier
- vi. Variable Capacitance Diode
- vii. Silica Booster Back Pulse Diode
- viii. Mixer Detector Diode
- ix. Schottky Diode
- x. Avalanche Diode
- xi. Microwave Diode
- xii. Solid Discharge Diode
- xiii. Other Silica Diodes
- 3. Compound Diode
  - i. Gallium Arsenide Variable Capacitance Diode
  - ii. Gallium Arsenide Switch Tube
  - iii. Gallium Arsenide Bulk Effect Diode
  - iv. Gallium Arsenide Tunnel Diode
  - v. Gallium Arsenide Mixer Diode
  - vi. Phosphor Gallium Arsenide Microwave Tube
  - vii. Diode Stack
  - viii. Other Compound Diodes
- 4. Other Diodes
- II. Semiconductor Triodes
  - 1. Germanium Triode
    - i. Germanium High Frequency Low Power Tube
    - ii. Germanium Triode
  - 2. Silicon Triodes
    - i. Silicon High Frequency Low Power Triode
    - ii. Silicon Transwitch Triodes
    - iii. Silicon Low Frequency High Power Triodes
    - iv. Silicon High Frequency High Power Triodes
    - v. Silicon High Counter Voltage Power Tube
    - vi. Darlington Tube
    - vii. Field Effect Tube
    - viii. Silicon Microwave Power Tube
    - ix. Silicon Microwave Low Noise Tube
    - x. Thyristor Unit
    - xi. Other Silicon Triodes
  - 3. Compound Triodes
    - i. Gallium Arsenide Microwave Field Effect Tube
    - ii. Other Compound Triodes
- III. Special Type Devices and Sensors
  - 1. Sensitive Devices and Sensors
    - i. Pressure Sensitive Device and Sensor
    - ii. Magnet Sensitive Device (Include Hall Device and Hall Circuit)

- iii. Gas Sensitive Device and Sensor
- iv. Humidity Sensitive Device and Sensor
- v. Ion Sensitive Device
- vi. Sound Sensitive Device
- vii. Ray Sensitive Device
- viii. BioSensor Device
- ix. Electrostatic Sensor Device
- x. Other Sensitive Devices
- 2. Other Devices
  - i. Semiconductor Freezing Device
  - ii. Other Devices
- IV. Power Semiconductor Device (More Than 5 A)
  - 1. Rectifier Diode
  - 2. General Thyristor
  - 3. Bidirectional Thyristor
  - 4. High Speed Thyristor
  - 5. High Frequency Thyristor
  - 6. Giant Transistor (GTR)
  - 7. Gate Turn-Off Thyristor (GTO)
  - 8. Thyristor Module
  - 9. Insulated Gate Bipolar Transistor, (IGBT)
  - 10. Power MOS Field Effect Tube
  - 11. Solid State Relay Module
  - 12. Static Induction Transistor Device (SIT)
  - 13. Other Power Semiconductor Device

### **Integrated Circuit**

- I. Integrated Circuit
  - Including: Large-Scale Integrated Circuit
    - 1. Bipolar Digital Circuit
      - i. TTL Circuit
        - a. SLTTL Circuit
        - b. Other TTL Circuits
      - ii. ECL Circuit
      - iii. Gate Array Circuit
      - iv. Other Bipolar Digital Circuit
    - 2. MOS Digital Circuit
      - Including: Large Scale MOS Digital Circuit
        - i. CMOS Circuit
        - ii. NMOS Circuit
        - iii. BICMOS Circuit
        - iv. Gate Array Circuit
    - 3. Interface Circuit

- Including: Large Scale Interface Circuit
  - i. Switching Circuit (A/D, D/A, V/F, F/V etc.)
  - ii. Driver Circuit
- 4. Artificial Circuit
  - i. Operational Amplifier
  - ii. Voltage Comparator
  - iii. Time Base Circuit
  - iv. Phase Locking Cyclic Circuit
  - v. Pulse Width Modulator
  - vi. Other Artificial Circuits
- 5. Power Supply Circuit
  - i. Common Voltage Stabilizing Circuit
  - ii. Switch Power Supply Control Circuit
  - iii. DC-DC Converter
  - iv. Other Power Supply Circuits
- 6. Dedicated Circuit
  - Including: Large Scale Dedicated Circuit
    - i. Television Circuit
      - a. Black and White Television Circuit
      - b. Color Television Circuit
    - ii. Acoustics Circuit
    - iii. Electronic Clock Circuit
    - iv. Electronic Toy Circuit
    - v. Circuit for Motor Speed Controller
    - vi. Tele-operator Transmitting and Receiving Circuit
    - vii. Dedicated Circuit for Household Electrical Appliance
    - viii. Display Driver Circuit
    - ix. Calculator Circuit
    - x. Communications Circuit
      - a. Mobile Communications Mobile Telephone Circuit
      - b. Mobile Communications BP Circuit
      - c. Fixed Communications Switch Circuit
      - d. Mobile Communications Base Station and Switch Circuit
      - e. Optical Communications Circuit
      - f. Telephone Set Circuit
      - g. Other Communications Circuits
    - xi. Automobile Dedicated Circuit
    - xii. Digital Audio and Video Circuit
      - a. Circuit for Image Compression Decompress
      - b. CMOS Transistor Videotape Chip
      - c. Image Processing Circuit
      - d. Other Digital Audio and Video Circuits
    - xiii. Smart Card Dedicated Circuit

- xiv. Other
- 7. Storage Unit Circuit
- 8. Computer Circuit
  - i. Universal Central Processing Unit (CPU)
  - ii. Flush-bonding Central Processing Unit
  - iii. Micro Control Unit (MCU)
  - iv. Chip Set and Interface Circuit
  - v. Peripheral Equipment Circuit
  - vi. Other Computer Circuits
- 9. Digital Signal Processor (DSP)
- 10. Microwave Integrated Circuit
  - i. Microwave Monolithic Integrated Circuit
  - ii. Microwave and Millimeter Wave Hybrid Integrated Circuit
  - iii. Other Microwave Integrated Circuits
- 11. Hybrid Integrated Circuit
  - i. Thin Film Hybrid Integrated Circuit
  - ii. Thick Film Hybrid Integrated Circuit
- 12. Sensor Circuit
  - i. Pressure Sensor Circuit
  - ii. Other Sensor Circuits
- 13. Integrated Circuit Chip
  - i. Integrated Circuit Chip
  - ii. Other Integrated Circuit Chips

#### **Micro and Special Motor**

- 1. Dedicated Micro and Special Motor
  - i. Motor for Electrograph and Tele-printer
  - ii. Motor for Phonograph (CD Phonograph, Record Player)
  - iii. Motor for Computer Peripheral Equipment
  - iv. Motor for Duplicating Machine
  - v. Motor for Video and Laser Player
  - vi. Micro Vibrating Motor for Mobile Telephone and Beep Pager
  - vii. Motor for Audio Recorder
- 2. Generator
  - i. Hand Generator Set
  - ii. Changing Frequency and Current Generator
  - iii. Generating Set
- 3. Other Generators
  - i. Washing Machine Motor
  - ii. Fan Motor
  - iii. Compressor Motor

#### **Electronic Wire and Cable**

- I. Installing Wire and Cable
  - 1. Installing Wire
  - 2. Installing Cable
  - 3. Ribbon Cable
  - 4. Spring Wire for Telephone and Computer
  - 5. Power Plug Wire
- II. Radio Frequency Cable
  - 1. CATV Coaxial Cable
  - 2. Corrugated Outer Conductor Radio Frequency Cable
  - 3. RF Coaxial Cable
  - 4. Universal Radio Frequency Cable
- III. Composite Cable
- IV. Cable for Communications and Electronic Network
  - 1. Communications Cable for Military
  - 2. Telephone Communications Cable
  - 3. Monitoring and Communications Used In Underground Mining and Tunnels
  - 4. Cable for Computer Network
- V. Other Wires and Cables
- VI. Electronic Wire Material
  - 1. Electronic Device Lead
  - 2. Bare Copper Wire
  - 3. Copper-Clad Steel Wire
  - 4. Minuteness Enameled Wire (Less Than 0.6 mm)
  - 5. General Enameled Wire (More Than 0.6 mm)
  - 6. Cotton Covered Wire Lapped Wire
  - 7. Other Electronic Wire Material

#### **Fiber Optical, Fiber Optical Cable**

- I. Fiber Optical
  - 1. Monomode Fiber
  - 2. Multimode Fiber
  - 3. Plastic Fiber
- II. Fiber Optical Cable
  - 1. Special Type Fiber Optical Cable
  - 2. Common Fiber Optical Cable
  - 3. Ribbon Fiber Optical Cable
  - 4. Special Type Fiber Optical Cable
  - 5. Other Fiber Optical Cables

#### **Battery**

- I. Alkaline Storage Battery
  - 1. Button Type Cadmium-Nickel Storage Battery
  - 2. Nickel Hydrogen Storage Battery

II. Lithium Storage Battery

1. Liquid Lithium Ion Storage Battery
2. Polymer Lithium Ion Storage Battery
3. Other Lithium Storage Battery

III. Reserve Battery

1. Silver Activating Battery
2. Thermal Cell
3. Lead Activating Battery
4. Magnesium Reserve Battery
5. Other Reserve Batteries

IV. Physical Power Source

1. Silicon Solar Battery
2. Gallium Arsenide Solar Battery
3. Other Solar Batteries
4. Thermoelectric Generator

V. Physical and Chemical Power Source System

VI. Storage Battery Charger

VII. Battery Dedicated Accessories

1. Foam Nickel, Fiber Nickel Strip
2. Cathode and Anode Strip for Nickel Hydrogen Battery
3. Lithium Storage Battery Dedicated Accessories
4. Other Battery Accessories

## Electronic Application Products

### Household Electrical and Electronic Products

1. Electronic keyboard
2. Electronic Game Player
3. Microwave Oven
4. Electromagnetism Stove
5. Other

### Medical Electronic Device and Apparatus

I. Medical Electronic Instrument and Device

1. Instrument and Device for Heart, Brain, Muscle, Eye
2. Oscillograph and Recording Instrument for Electrocardiograph and Physiology
3. Monitoring Apparatus
4. Cardiac Telemetry System
5. Emergency Therapy Apparatus
6. Blood Measuring Apparatus
7. Gas Analysis Measuring Instrument
8. Electronic Body Temperature and Pressure Measuring Device



- II. Medical Ultrasonic Apparatus
  - 1. Dasonograph Apparatus
  - 2. Ultrasonic Therapeutic Apparatus
  - 3. Ultrasonic Transducer
- III. Medical Laser Instrument and Apparatus
  - 1. Laser Diagnostic Instrument
  - 2. Laser Therapeutic Apparatus
  - 3. Laser Inspecting Apparatus
- IV. Medical Biochemical Analytic Apparatus
  - 1. Separation and Preparation Apparatus
  - 2. Biochemical Analytic Apparatus
- V. Medical High Frequency, Microwave, Radiation and Nuclide Apparatus
  - 1. Medical High Frequency Apparatus
  - 2. Medical Microwave Diagnostic, Therapeutic Instrument
  - 3. Medical Radiation Diagnostic, Therapeutic Apparatus
  - 4. Medical Nuclide Diagnostic, Therapeutic Apparatus
- VI. Apparatus for Lunar Physics [traditional Chinese medicine apparatus]
  - 1. Diagnostic Instrument
  - 2. A Variety Of Electrotherapeutics, Magnetic Therapy, Phototherapy and Acupuncture Anesthetic Instrument
- VII. Other Medical Electronics Instrument
  - 1. Medical Optical Instrument
  - 2. Extracorporeal Circulation Instrument
  - 3. Other

### **Electronic Dedicated Material Products**

#### **Electronic Element Material**

- I. Electronic Element Material
  - 1. Insulating Paper
  - 2. Cellulose Paper Copper Clad Laminates
  - 3. Woven Glass Fabric Copper Clad Laminates
  - 4. Electronic Optical Glass
  - 5. Dedicated Steel Wire
  - 6. Electrolytic Manganese Dioxide Powder
  - 7. Aluminum Foil Material for Capacitor
    - i. Aluminum Foil
    - ii. Polyester Film
    - iii. Polypropylene Film
  - 8. Piezoelectric Material
    - i. Lithium Niobate Single Crystal
    - ii. Lithium Tantalate Single Crystal
    - iii. Synthetic Quartz

9. Fiber Optical Prefabricated Stick

**Vacuum Electronic Device Material**

- I. Vacuum Electronic Device Material
  1. Tungsten Manufactured Product
    - i. Tungsten Wire
    - ii. Tungsten Rod
    - iii. Stranded Tungsten Wire Heater Element
    - iv. Tungsten Sheet
  2. Molybdenum Manufacture
    - i. Molybdenum Wire
    - ii. Molybdenum Dry
    - iii. Molybdenum Sheet
  3. Nickel-Based Alloy
    - i. Nickel Wire
    - ii. Nickel Strip
    - iii. Nickel Tube
  4. Compound Metal Electronic Material
    - i. Dumet Wire
    - ii. Nickel Coated Metal Strip
  5. Contact Material  
Including: Copper Tungsten Alloy
  6. Glass for Electronic Vacuum Device
  7. Liquid Crystal Material
  8. Alloy Material
    - i. Silver Copper Solder
    - ii. Lead Tin Alloy Material
    - iii. Gold Antimony Alloy Material
    - iv. Other Alloy Materials
  9. Other Electronic Vacuum Materials

**Semiconductor Material**

- I. Semiconductor Material
  1. Semiconductor Single Crystal
    - i. Germanium Single Crystal
    - ii. Silicon Single Crystal
    - iii. Compound Single Crystal
  2. Semiconductor Sheet Material
    - i. Semiconductor Polished Chip
    - ii. Semiconductor Epiwafer
    - iii. Other Semiconductor Materials
  3. Semiconductor Encapsulation Material
    - i. Gold Bonding Wire

- ii. Aluminum Silicon Bonding Wire
  - iii. Metal Package for Encapsulation
  - iv. Ceramic Shell Used for Encapsulation
  - v. Plastic Package Lead Frame and Metal Strip for Discrete Devices
  - vi. Plastic Package Lead Frame and Metal Strip for Integrate Circuit
  - vii. Molding Material Powder and Auxiliary Material for Encapsulation
  - viii. Other Semiconductor Encapsulation Material
4. Photo Mask
  5. Quartz Product

### **Chemical Material Incorporating Information Technology**

- I. Chemical Material Incorporating Information Technology
  1. Fluorescence Powder
    - i. Colored Fluorescence Powder
    - ii. Black and White Fluorescence Powder
  2. Carbonate
  3. Getter
    - i. Evaporable Type Getter
    - ii. Nonevaporable Type Getter
    - iii. Hydrargyrum and Titanium mixture
  4. Photoresist

Sponsor: Ministry of Information Industry

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