

Section XVI - Chapter 85

Electrical Machinery and Equipment and Parts Thereof; Sound Recorders and Reproducers, Television Image and Sound Recorders and Reproducers, and Parts and Accessories of Such Articles

Notes

1. This chapter does not cover:
 - (a). Electrically warmed blankets, bed pads, foot muffs or the like; electrically warmed clothing, footwear or ear pads or other electrically warmed articles worn on or about the person;
 - (b). Articles of glass of heading 7011;
 - (c). Machines and apparatus of heading 8486;
 - (d). Vacuum apparatus of a kind used in medical, surgical, dental or veterinary sciences (heading 9018); or
 - (e). Electrically heated furniture of chapter 94.

2. Headings 8501 to 8504 do not apply to goods described in heading 8511, 8512, 8540, 8541 or 8542.

However, metal tank mercury arc rectifiers remain classified in heading 8504.

3. For the purposes of heading 8507, the expression "electric accumulators" includes those presented with ancillary components which contribute to the accumulator's function of storing and supplying energy or protect it from damage, such as electrical connectors, temperature control devices (for example, thermistors) and circuit protection devices. They may also include a portion of the protective housing of the goods in which they are to be used.

4. Heading 8509 covers only the following electromechanical machines of the kind commonly used for domestic purposes:
 - (a). Floor polishers, food grinders and mixers, and fruit or vegetable juice extractors, of any weight;
 - (b). Other machines provided the weight of such machines does not exceed 20 kg, exclusive of extra interchangeable parts or detachable auxiliary devices.The heading does not, however, apply to fans or ventilating or recycling hoods incorporating a fan, whether or not fitted with filters (heading 8414), centrifugal clothes dryers (heading 8421), dishwashing machines (heading 8422), household washing machines (heading 8450), roller or other ironing machines (heading 8420 or 8451), sewing machines (heading 8452), electric scissors (heading 8467) or to electrothermic appliances (heading 8516).

5. For the purposes of heading 8523:

- (a). "Solid-state non-volatile storage devices" (for example, "flash memory cards" or "flash electronic storage cards") are storage devices with a connecting socket, comprising in the same housing one or more flash memories (for example, "FLASH E2PROM") in the form of integrated circuits mounted on a printed circuit board. They may include a controller in the form of an integrated circuit and discrete passive components, such as capacitors and resistors;
 - (b). The term "smart cards" means cards which have embedded in them one or more electronic integrated circuits (a microprocessor, random access memory (RAM) or read-only memory (ROM)) in the form of chips. These cards may contain contacts, a magnetic stripe or an embedded antenna but do not contain any other active or passive circuit elements.
6. For the purposes of heading 8534 "printed circuits" are obtained by forming on an insulating base, by any printing process (for example, embossing, plating-up, etching) or by the "film circuit" technique, conductor elements, contacts or other printed components (for example, inductances, resistors, capacitors) alone or interconnected according to a pre-established pattern, other than elements which can produce, rectify, modulate or amplify an electrical signal (for example, semiconductor elements).

The term "printed circuits" does not cover circuits combined with elements other than those obtained during the printing process, nor does it cover individual, discrete resistors, capacitors or inductances. Printed circuits may, however, be fitted with nonprinted connecting elements.

Thin- or thick-film circuits comprising passive and active elements obtained during the same technological process are to be classified in heading 8542.

7. For the purpose of heading 8536, "connectors for optical fibers, optical fiber bundles or cables" means connectors that simply mechanically align optical fibers end to end in a digital line system. They perform no other function, such as the amplification, regeneration or modification of a signal.
8. Heading 8537 does not include cordless infrared devices for the remote control of television receivers or other electrical equipment (heading 8543).
9. For the purposes of headings 8541 and 8542:
- (a). "Diodes, transistors and similar semiconductor devices" are semiconductor devices the operation of which depends on variations in resistivity on the application of an electric field;
 - (b). "Electronic integrated circuits" are:

- (i). Monolithic integrated circuits in which the circuit elements (diodes, transistors, resistors, capacitors, inductances, etc.) are created in the mass (essentially) and on the surface of a semiconductor or compound semiconductor material (for example, doped silicon, gallium arsenide, silicon germanium, iridium phosphide), and are inseparably associated;
- (ii). Hybrid integrated circuits in which passive elements (resistors, capacitors, inductances, etc.), obtained by thin- or thick-film technology and active elements (diodes, transistors, monolithic integrated circuits, etc.), obtained by semiconductor technology, are combined to all intents and purposes indivisibly, by interconnections of interconnecting cables, on a single insulating substrate (glass, ceramic, etc.). These circuits may also include discrete components;
- (iii). Multichip integrated circuits consisting of two or more interconnected monolithic integrated circuits combined to all intents and purposes indivisibly, whether or not on one or more insulating substrates, with or without leadframes, but with no other active or passive circuit elements.
- (iv). Multi-component integrated circuits (MCOs): a combination of one or more monolithic, hybrid, or multi-chip integrated circuits with at least one of the following components: silicon-based sensors, actuators, oscillators, resonators or combinations thereof, or components performing the functions of articles classifiable under heading 8532, 8533, 8541, or inductors classifiable under heading 8504, formed to all intents and purposes indivisibly into a single body like an integrated circuit, as a component of a kind used for assembly onto a printed circuit board (PCB) or other carrier, through the connecting of pins, leads, balls, lands, bumps, or pads.

For the purpose of this definition :

1. “Components” may be discrete, manufactured independently then assembled onto the rest of the MCO, or integrated into other components.
2. “Silicon based” means built on a silicon substrate, or made of silicon materials, or manufactured onto integrated circuit die.
3. (a) “Silicon based sensors” consist of microelectronic or mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of detecting physical or chemical quantities and transducing these into electric signals, caused by resulting variations in electric properties or displacement of a mechanical structure. “Physical or chemical quantities” relates to real world phenomena, such as pressure, acoustic waves, acceleration, vibration, movement, orientation, strain, magnetic field strength, electric field strength, light, radioactivity, humidity, flow, chemicals concentration, etc.

- (b) "Silicon based actuators" consist of microelectronic and mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of converting electrical signals into physical movement.
- (c) "Silicon based resonators" are components that consist of microelectronic and/or mechanical structures that are created in the mass or on the surface of a semiconductor and have the function of generating a mechanical or electrical oscillation of a predefined frequency that depends on the physical geometry of these structures in response to an external input.
- (d) "Silicon based oscillators" are active components that consist of microelectronic and/or mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of generating a mechanical or electrical oscillation of a predefined frequency that depends on the physical geometry of these structures.

For the classification of the articles defined in this note, headings 8541 and 8542 shall take precedence over any other heading in the Nomenclature, except in the case of heading 8523, which might cover them by reference to, in particular, their function.

10. For the purposes of heading 8548, "spent primary cells, spent primary batteries and spent electric storage batteries" are those which are neither usable as such because of breakage, cutting up, wear or other reasons, nor capable of being recharged.

Subheading Note

1. Subheading 8527.12 covers only cassette players with built-in amplifier, without built-in loudspeaker, capable of operating without an external source of electric power and the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.

Statistical U.S. Notes

1. For the purposes of headings 8501 and 8503, 746 watts (W) is taken to be equivalent to 1 horsepower (hp).
2. For the purposes of subheading 8516.72, the term "toasters" includes toaster-ovens which are designed essentially for toasting bread but can also bake small items, such as potatoes.
3. For the purposes of heading 8525 the term "transceivers" refers to combinations of radio transmitting and receiving equipment in a common housing, employing common circuit components for both transmitting and receiving, and which are not capable of simultaneously receiving and transmitting.

4. For the purpose of heading 8528 the video display diagonal is determined by measuring the maximum straight line dimension across that part of the faceplate used for displaying video.
5. For statistical reporting purposes under subheading 8539.10, the size of a sealed beam lamp unit is determined by measuring the largest diagonal dimension across the faceplate.
6. For the purpose of the export schedule the unit of quantity "fiber m", (fbr m) as it pertains to optical fiber bundles, cables, ribbons, etc., is determined by multiplying the number of individual fibers contained therein by the length in meters.
7. For statistical reporting purposes under 8532.22, the diameter of aluminum electrolytic capacitors not having a circular cross section shall be a maximum dimension measured through the center.
8. For statistical reporting purposes in subheading 8542 the following definitions will apply:
 - (a). The term "static read-write random access (SRAM)" refers to integrated circuit memory devices in which the memory cells may be addressed in any sequence, randomly, for the storage or retrieval of data and in which the stored information is retained without further intervention as long as electric power is supplied to the device.
 - (b). The term "volatile memory" refers to integrated circuit memory devices which lose all stored information in the absence of electric power.
 - (c). The term "dynamic read-write random access (DRAM)" refers to integrated circuit memory devices in which the memory cells may be addressed in any sequence, randomly, for the storage or retrieval of data and in which the stored information must continually be refreshed in order to hold the information in memory.
 - (d). The term "electrically erasable programmable read-only memory (EEPROM)" refers to user programmable integrated circuit memory devices which retain the stored information in the absence of electric power and in which the stored information may be altered electrically.
 - (e). The term "erasable (except electrically) programmable read-only memory (EPROM)" refers to user programmable integrated circuit memory devices which retain the stored information in the absence of electric power and from which the stored information may be removed (except electrically). Such devices are usually erased by exposure to ultraviolet light after which they may be rewritten with new information.
 - (f). The term "microprocessor" refers to a central processing unit (CPU) fabricated as a monolithic integrated circuit.

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
85	Electrical Machinery and Equipment and Parts Thereof; Sound Recorders and Reproducers, Television Image and Sound Recorders and Reproducers, and Parts and Accessories of Such Articles		
8501	- Electric motors and generators (excluding generating sets):		
8501.10	-- Motors of an output not exceeding 37.5 W:		
	--- Of under 18.65 W (1/40 hp):		
8501.10.3000	---- AC	No.	
	---- DC:		
8501.10.4040	----- Brushless	No.	
8501.10.4060	----- Other	No.	
8501.10.4080	---- Other	No.	
	--- Of 18.65 W (1/40 hp) or more but not exceeding 37.5 W (1/20 hp):		
8501.10.6020	---- AC	No.	
	---- DC:		
8501.10.6040	----- Brushless	No.	
8501.10.6060	----- Other	No.	
8501.10.6080	---- Other	No.	
8501.20	-- Universal AC/DC motors of an output exceeding 37.5 W:		
8501.20.2000	--- Exceeding 37.5 W (1/20 hp) but not exceeding 74.6 W (1/10 hp)	No.	
8501.20.3000	--- Exceeding 74.6 W (1/10 hp) but under 746 W (1 hp)	No.	
8501.20.6000	--- Other	No.	
	-- Other DC motors; DC generators:		
8501.31	--- Of an output not exceeding 750 W:		
	---- Motors:		
8501.31.2000	----- Exceeding 37.5 W (1/20 hp) but not exceeding 74.6 W (1/10 hp)	No.	
8501.31.3000	----- Exceeding 74.6 W (1/10 hp) but under 746 W (1 hp)	No.	
8501.31.6000	----- Other	No.	
8501.31.8000	---- Generators	No.	
8501.32	--- Of an output exceeding 750 W but not exceeding 75 kW:		
	---- Motors:		
8501.32.2000	----- Exceeding 750 W (1.005 hp) but not exceeding 14.92 kW (20 hp)	No.	
8501.32.4000	----- Other	No.	
8501.32.6000	---- Generators	No.	
8501.33	--- Of an output exceeding 75 kW but not exceeding 375 kW:		
	---- Motors:		
8501.33.2000	----- Exceeding 75 kW (100 hp) but under 149.2 kW (200 hp)	No.	
8501.33.3000	----- 149.2 kW (200 hp) but not exceeding 150 kW (201 hp)	No.	
	----- Other:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8501.33.4040	----- Exceeding 150 kW (201 hp) but not exceeding 373 kW (500 hp)	No.	
8501.33.4060	----- Other	No.	
8501.33.6000	---- Generators	No.	
8501.34	--- Of an output exceeding 375 kW:		
8501.34.3000	---- Motors	No.	
8501.34.6000	---- Generators	No.	
8501.40	-- Other AC motors, single-phase:		
	--- Of an output exceeding 37.5 W (1/20 hp) but not exceeding 74.6 W (1/10 hp):		
8501.40.2020	---- Gear motors	No.	
8501.40.2040	---- Other	No.	
	--- Of an output exceeding 74.6 W (1/10 hp) but under 746 W (1 hp):		
8501.40.3020	---- Gear motors	No.	
8501.40.3040	---- Other	No.	
	--- Other:		
8501.40.6020	---- Gear motors	No.	
8501.40.6040	---- Other	No.	
	-- Other AC motors, multi-phase:		
8501.51	--- Of an output not exceeding 750 W:		
	---- Exceeding 37.5 W (1/20 hp) but not exceeding 74.6 W (1/10 hp):		
8501.51.2020	----- Gear motors	No.	
8501.51.2040	----- Other	No.	
	---- Exceeding 74.6 W (1/10 hp) but under 746 W (1 hp):		
8501.51.3020	----- Gear motors	No.	
8501.51.3040	----- Other	No.	
	---- Other:		
8501.51.6020	----- Gear motors	No.	
8501.51.6040	----- Other	No.	
8501.52	--- Of an output exceeding 750 W but not exceeding 75 kW:		
8501.52.4000	---- Exceeding 750 W (1.005 hp) but not exceeding 14.92 kW (20 hp)	No.	
8501.52.8000	---- Other	No.	
8501.53	--- Of an output exceeding 75 kW:		
8501.53.4000	---- Exceeding 75 kW (100 hp) but under 149.2 kW (200 hp)	No.	
8501.53.6000	---- 149.2 kW (200 hp) or more but not exceeding 150 kW (201 hp)	No.	
	---- Other:		
8501.53.8040	----- Exceeding 150 kW (201 hp) but not exceeding 373 kW (500 hp)	No.	
8501.53.8060	----- Other	No.	
	-- AC generators (alternators):		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8501.61.0000	--- Of an output not exceeding 75 kVA	No.	
8501.62.0000	--- Of an output exceeding 75 kVA but not exceeding 375 kVA	No.	
8501.63.0000	--- Of an output exceeding 375 kVA but not exceeding 750 kVA	No.	
8501.64	--- Of an output exceeding 750 kVA:		
8501.64.0020	---- Exceeding 750 kVA but not exceeding 10,000 kVA	No.	
8501.64.0030	---- Exceeding 10,000 kVA but not exceeding 40,000 kVA	No.	
8501.64.0050	---- Other	No.	
8502	- Electric generating sets and rotary converters:		
	-- Generating sets with compression-ignition internal combustion piston engines (diesel or semi-diesel engines):		
8502.11.0000	--- Of an output not exceeding 75 kVA	No.	
8502.12.0000	--- Of an output exceeding 75 kVA but not exceeding 375 kVA	No.	
8502.13	--- Of an output exceeding 375 kVA:		
8502.13.0020	---- Exceeding 375 kVA but not exceeding 1,000 kVA	No.	
8502.13.0040	---- Exceeding 1,000 kVA	No.	
8502.20	-- Generating sets with spark-ignition internal combustion piston engines:		
8502.20.0040	--- Of an output not exceeding 5 kW	No.	
8502.20.0080	--- Of an output exceeding 5 kW	No.	
	-- Other generating sets:		
8502.31.0000	--- Wind-powered	No.	
8502.39	--- Other:		
8502.39.0010	---- Powered by gas turbines	No.	
8502.39.0090	---- Other	No.	
8502.40.0000	-- Electric rotary converters	No.	
8503	- Parts suitable for use solely or principally with machines of heading 8501 or 8502:		
8503.00.2000	-- Commutators	No.	
	-- Other:		
8503.00.5000	--- Parts of motors (other than commutators)	X	
8503.00.6040	--- Parts of generators (other than commutators)	X	
8503.00.6060	--- Other	X	
8504	- Electrical transformers, static converters (for example, rectifiers) and inductors; power supplies for automatic data processing machines or units thereof of heading 8471; parts thereof:		
8504.10.0000	-- Ballasts for discharge lamps or tubes	No.	
	-- Liquid dielectric transformers:		
8504.21	--- Having a power handling capacity not exceeding 650 kVA:		
8504.21.0020	---- Having a power handling capacity not exceeding 50 kVA	No.	
8504.21.0040	---- Having a power handling capacity exceeding 50 kVA but not exceeding 100 kVA	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8504.21.0060	---- Having a power handling capacity exceeding 100 kVA but not exceeding 500 kVA	No.	
8504.21.0080	---- Having a power handling capacity exceeding 500 kVA but not exceeding 650 kVA	No.	
8504.22	--- Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA:		
8504.22.0040	---- Having a power handling capacity exceeding 650 kVA but not exceeding 2,500 kVA	No.	
8504.22.0080	---- Having a power handling capacity exceeding 2,500 kVA but not exceeding 10,000 kVA	No.	
8504.23	--- Having a power handling capacity exceeding 10,000 kVA:		
8504.23.0040	---- Having a power handling capacity exceeding 10,000 kVA but not exceeding 100,000 kVA	No.	
8504.23.0080	---- Having a power handling capacity exceeding 100,000 kVA -- Other transformers:	No.	
8504.31	--- Having a power handling capacity not exceeding 1 kVA:		
8504.31.2000	---- Unrated ---- Other:	No.	
8504.31.4035	----- Having a power handling capacity less than 1 kVA:		
8504.31.4065	----- Having a power handling capacity less than 40 VA	No.	
8504.31.6000	----- Having a power handling capacity 40 VA or greater	No.	
8504.32.0000	----- Having a power handling capacity of 1 kVA	No.	
8504.33	--- Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	No.	
8504.33.0020	--- Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA:		
8504.33.0040	---- Having a power handling capacity exceeding 16 kVA but not exceeding 50 kVA	No.	
8504.33.0040	---- Having a power handling capacity exceeding 50 kVA but not exceeding 500 kVA	No.	
8504.34.0000	--- Having a power handling capacity exceeding 500 kVA	No.	
8504.40	-- Static converters; power supplies for automatic data processing machines or units thereof of heading 8471: --- Power supplies for automatic data processing machines: ---- Suitable for physical incorporation into automatic data processing machines or units thereof of heading 8471:		
8504.40.6001	----- With a power output not exceeding 50 W	No.	
8504.40.6007	----- With a power output exceeding 50 W but not exceeding 150 W	No.	
8504.40.6012	----- With a power output exceeding 150 W but not exceeding 500 W	No.	
8504.40.6018	----- Other ---- Other:	No.	
8504.40.7001	----- With a power output not exceeding 50 W	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8504.40.7007	----- With a power output exceeding 50 W but not exceeding 150 W	No.	
8504.40.7012	----- With a power output exceeding 150 W but not exceeding 500 W	No.	
8504.40.7018	----- Other	No.	
8504.40.8500	--- For telecommunications apparatus	No.	
	--- Other:		
	---- Rectifiers and rectifying apparatus:		
	----- Power supplies:		
8504.40.9510	----- With a power output not exceeding 50 W	No.	
8504.40.9520	----- With a power output exceeding 50 W but not exceeding 150 W	No.	
8504.40.9530	----- With a power output exceeding 150 W but not exceeding 500 W	No.	
8504.40.9540	----- Other	No.	
8504.40.9550	----- Other	X	
8504.40.9570	---- Inverters	No.	
8504.40.9580	---- Other	X	
8504.50.0000	-- Other inductors	No.	
8504.90	-- Parts:		
8504.90.0020	--- Of transformers	X	
8504.90.0080	--- Other	X	
8505	- Electromagnets; permanent magnets and articles intended to become permanent magnets after magnetization; electro- magnetic or permanent magnet chucks, clamps and similar holding devices; electromagnetic couplings, clutches and brakes; electromagnetic lifting heads; parts thereof:		
	-- Permanent magnets and articles intended to become permanent magnets after magnetization:		
8505.11	--- Of metal:		
8505.11.0030	---- Ceramic	No.	
8505.11.0070	---- Sintered neodymium-iron-boron	No.	
8505.11.9000	---- Other	No.	
8505.19.0000	--- Other	No.	
8505.20.0000	-- Electromagnetic couplings, clutches and brakes	X	
8505.90	-- Other, including parts:		
8505.90.3000	--- Electromagnetic lifting heads	X	
8505.90.4000	--- Work holders and parts thereof	X	
8505.90.8000	--- Other	X	
8506	- Primary cells and primary batteries; parts thereof:		
8506.10.0000	-- Manganese dioxide	No.	
8506.30	-- Mercuric oxide:		
8506.30.1000	--- Having an external volume not exceeding 300 cm ³	No.	
8506.30.5000	--- Other	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8506.40	-- Silver oxide:		
8506.40.1000	--- Having an external volume not exceeding 300 cm3	No.	
8506.40.5000	--- Other	No.	
8506.50.0000	-- Lithium	No.	
8506.60.0000	-- Air-zinc	No.	
8506.80.0000	-- Other primary cells and primary batteries	No.	
8506.90.0000	-- Parts	X	
8507	- Electric storage batteries, including separators therefor, whether or not rectangular (including square); parts thereof:		
8507.10	-- Lead-acid storage batteries, of a kind used for starting piston engines:		
	--- 12 V batteries:		
8507.10.0030	---- Not exceeding 6 kg in weight	No.	kg
8507.10.0060	---- Exceeding 6 kg in weight	No.	kg
8507.10.0090	--- Other	No.	
8507.20	-- Other lead-acid storage batteries:		
8507.20.0030	--- 6 V batteries	No.	kg
8507.20.0040	--- 12 V batteries	No.	kg
8507.20.0060	--- 36 V batteries	No.	kg
8507.20.0090	--- Other	No.	kg
8507.30.0000	-- Nickel-cadmium storage batteries	No.	
8507.40.0000	-- Nickel-iron storage batteries	No.	
8507.50.0000	-- Nickel-metal hydride batteries	No.	
8507.60.0000	-- Lithium ion batteries	No.	
8507.80.0002	-- Other storage batteries	No.	
8507.90	-- Parts:		
8507.90.4000	--- Of lead-acid storage batteries	X	
8507.90.8000	--- Other	X	
8508	- Vacuum cleaners; parts thereof:		
	-- With self-contained electric motor:		
8508.11.0000	--- Of a power not exceeding 1,500 W and having a dust bag or other receptacle capacity not exceeding 20 L	No.	
8508.19.0000	--- Other	No.	
8508.60.0000	-- Other vacuum cleaners	No.	
8508.70.0000	-- Parts	X	
8509	- Electromechanical domestic appliances, with self-contained electric motor; other than vacuum cleaners of heading 8508; parts thereof:		
8509.40	-- Food grinders, processors and mixers; fruit or vegetable juice extractors:		
8509.40.0020	--- Food mixers (including blenders)	No.	
8509.40.0030	--- Juice extractors	No.	
8509.40.0040	--- Food grinders and processors	No.	
8509.80	-- Other appliances:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8509.80.1000	--- Floor polishers	No.	
8509.80.2000	--- Kitchen waste disposers (disposals)	No.	
8509.80.5040	--- Can openers (including combination units)	No.	
8509.80.5060	--- Humidifiers	No.	
8509.80.5091	--- Other	No.	
8509.90	-- Parts:		
8509.90.3000	--- Parts of floor polishers	X	
8509.90.4050	--- Other	X	
8510	- Shavers, hair clippers and hair-removing appliances, with self-contained electric motor; parts thereof:		
8510.10.0000	-- Shavers	No.	
8510.20.0000	-- Hair clippers	No.	
8510.30.0000	-- Hair-removing appliances	No.	
8510.90	-- Parts:		
	--- Parts of shavers:		
8510.90.1000	---- Blades and cutting heads	X	
8510.90.2000	---- Other parts of shavers		
		X	
8510.90.3000	--- Parts of hair clippers	X	
8510.90.5500	--- Other	X	
8511	- Electrical ignition or starting equipment of a kind used for spark-ignition or compression-ignition internal combustion engines (for example, ignition magnetos, magneto-dynamos, ignition coils, spark plugs and glow plugs, starter motors); generators (for example, dynamos, alternators) and cut-outs of a kind used in conjunction with such engines; parts thereof:		
8511.10.0000	-- Spark plugs	Hundr	
8511.20.0000	-- Ignition magnetos; magneto-dynamos; magnetic flywheels		
		X	
8511.30	-- Distributors; ignition coils:		
8511.30.0040	--- Distributors	No.	
8511.30.0080	--- Ignition coils	No.	
8511.40.0000	-- Starter motors and dual purpose starter-generators	No.	
8511.50.0000	-- Other generators	No.	
8511.80	-- Other equipment:		
	--- Voltage and voltage-current regulators with cut-out relays:		
8511.80.2000	---- Designed for use on 6, 12 or 24 V systems	No.	
8511.80.4000	---- Other	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8511.80.6000	--- Other	X	
8511.90	-- Parts:		
8511.90.6020	--- Distributor contact (breaker point) sets	No.	
8511.90.8000	--- Other	X	
8512	- Electrical lighting or signaling equipment (excluding articles of heading 8539), windshield wipers, defrosters and demisters, of a kind used for cycles or motor vehicles; parts thereof:		
8512.10.0000	-- Lighting or visual signaling equipment of a kind used on bicycles	X	
8512.20	-- Other lighting or visual signaling equipment:		
8512.20.2000	--- Lighting equipment (including interior lights)	X	
8512.20.4000	--- Visual signaling equipment (including braking lights and turning signal lights)	X	
8512.30	-- Sound signaling equipment:		
8512.30.0030	--- Radar detectors of a kind used in motor vehicles	No.	
8512.30.0050	--- Other	X	
8512.40	-- Windshield wipers, defrosters and demisters:		
8512.40.2000	--- Defrosters and demisters	X	
8512.40.4000	--- Windshield wipers	X	
8512.90	-- Parts:		
8512.90.2000	--- Of signaling equipment	X	
8512.90.5000	--- Of lighting equipment	X	
8512.90.8000	--- Other	X	
8513	- Portable electric lamps designed to function by their own source of energy (for example, dry batteries, storage batteries, magnetos), other than lighting equipment of heading 8512; parts thereof:		
8513.10.0000	-- Lamps	X	
8513.90.0000	-- Parts	X	
8514	- Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss; parts thereof:		
8514.10.0000	-- Resistance heated furnaces and ovens	No.	
8514.20	-- Furnaces and ovens functioning by induction or dielectric loss:		
	--- Microwave ovens:		
8514.20.4000	---- For making hot drinks, or for cooking or heating food	No.	
8514.20.6000	---- Other	No.	
8514.20.8000	--- Other	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8514.30.0000	-- Other furnaces and ovens	No.	
8514.40.0000	-- Other equipment for the heat treatment of materials by induction or dielectric loss	X	
8514.90	-- Parts:		
8514.90.4000	--- Of microwave ovens	X	
8514.90.8000	--- Other	X	
8515	- Electric (including electrically heated gas), laser or other light or photon beam, ultrasonic, electron beam, magnetic pulse or plasma arc soldering, brazing or welding machines and apparatus, whether or not capable of cutting; electric machines and apparatus for hot spraying of metals or cermets; parts thereof:		
	-- Brazing or soldering machines and apparatus:		
8515.11.0000	--- Soldering irons and guns	No.	
8515.19.0000	--- Other	No.	
	-- Machines and apparatus for resistance welding of metal:		
8515.21.0000	--- Fully or partly automatic	No.	
8515.29.0000	--- Other	No.	
	-- Machines and apparatus for arc (including plasma arc) welding of metals:		
8515.31.0000	--- Fully or partly automatic	No.	
8515.39	--- Other:		
	---- Non-rotating type:		
8515.39.0020	----- AC transformer type	No.	
8515.39.0040	----- Other	No.	
8515.39.0060	----- Rotating type	No.	
8515.80	-- Other machines and apparatus:		
8515.80.0040	--- Ultrasonic welding machines	No.	
8515.80.0080	--- Other	No.	
8515.90	-- Parts:		
	--- Of welding machines and apparatus	X	
8515.90.4000	--- Other parts	X	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8516	- Electric instantaneous or storage water heaters and immersion heaters; electric space heating apparatus and soil heating apparatus; electrothermic hairdressing apparatus (for example, hair dryers, hair curlers, curling tong heaters) and hand dryers; electric flatirons; other electrothermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 8545; parts thereof:		
8516.10	-- Electric instantaneous or storage water heaters and immersion heaters:		
8516.10.0040	--- Storage water heaters	No.	
8516.10.0080	--- Other water heaters and immersion heaters	No.	
	-- Electric space heating apparatus and electric soil heating apparatus:		
8516.21.0000	--- Storage heating radiators	No.	
8516.29.0000	--- Other	X	
	-- Electrothermic hairdressing or hand-drying apparatus:		
8516.31.0000	--- Hair dryers	No.	
8516.32.0000	--- Other hairdressing apparatus	X	
8516.33.0000	--- Hand-drying apparatus	No.	
8516.40.0000	-- Electric flatirons	No.	
8516.50.0000	-- Microwave ovens	No.	
8516.60	-- Other ovens; cooking stoves, ranges, cooking plates, boiling rings, grillers and roasters:		
8516.60.4000	--- Cooking stoves, ranges and ovens	No.	
8516.60.6000	--- Other	No.	
	-- Other electrothermic appliances:		
8516.71.0000	--- Coffee or tea makers	No.	
8516.72.0000	--- Toasters	No.	
8516.79.0000	--- Other	No.	
8516.80.0000	-- Electric heating resistors	X	
8516.90	-- Parts:		
8516.90.1700	--- Of microwave ovens	X	
8516.90.2700	--- Of cooking stoves, ranges and ovens	X	
8516.90.9500	--- Other	X	
8517	- Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network), other than transmission or reception apparatus of heading 8443, 8525, 8527, or 8528; parts thereof:		
	-- Telephone sets, including telephones for cellular networks or for other wireless networks:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8517.11.0000	--- Line telephone sets with cordless handsets	No.	
8517.12	--- Telephones for cellular networks or for other wireless networks:		
8517.12.0020	---- Radio telephones designed for installation in motor vehicles for the Public Cellular Radiotelecommuni- cation Service	No.	
8517.12.0050	---- Other radio telephones designed for the Public Cellular Radiotelecommunication Service	No.	
8517.12.0080	---- Other	No.	
8517.18.0000	--- Other	No.	
	-- Other apparatus for transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network):		
8517.61.0000	--- Base stations	No.	
8517.62	--- Machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus:		
8517.62.0010	---- Modems, of a kind used with data processing machines of heading 8471	No.	
8517.62.0050	---- Other	X	
8517.69.0000	--- Other	X	
8517.70.0000	-- Parts	X	
8518	- Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers; audio-frequency electric amplifiers; electric sound amplifier sets; parts thereof:		
8518.10.0000	-- Microphones and stands therefor	X	
	-- Loudspeakers, whether or not mounted in their enclosures:		
8518.21.0000	--- Single loudspeakers, mounted in their enclosures	No.	
8518.22.0000	--- Multiple loudspeakers, mounted in the same enclosure	No.	
8518.29.0000	--- Other	No.	
8518.30	-- Headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers:		
8518.30.1000	--- Telephone handsets	No.	
8518.30.2000	--- Other	No.	
8518.40	-- Audio-frequency electric amplifiers:		
8518.40.1000	--- For use as repeaters in line telephony	No.	
8518.40.2000	--- Other	No.	
8518.50.0000	-- Electric sound amplifier sets	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8518.90	-- Parts:		
8518.90.1000	--- Of telephone handsets and repeaters	X	
8518.90.3000	--- Other	X	
8519	- Sound recording or reproducing apparatus:		
8519.20.0000	-- Apparatus operated by coins, banknotes, bank cards, tokens or by other means of payment	No.	
8519.30	-- Turntables (record-decks):		
8519.30.1000	--- With automatic record changing mechanism	No.	
8519.30.2000	--- Other	No.	
8519.50.0000	-- Telephone answering machines	No.	
	-- Other apparatus:		
8519.81	--- Using magnetic, optical or semiconductor media:		
	---- Sound reproducing only:		
8519.81.1000	----- Transcribing machines	No.	
	----- Cassette-type tape players:		
8519.81.2000	----- Designed exclusively for motor-vehicle installation	No.	
8519.81.2500	----- Other	No.	
8519.81.3000	----- Other	No.	
	---- Other:		
8519.81.4010	----- Magnetic tape recorders incorporating sound reproducing apparatus, other than telephone answering machines	No.	
8519.81.4020	----- Optical disc recorders	No.	
8519.81.4050	----- Other	No.	
	---- Other:		
8519.89	--- Other:		
	---- Sound reproducing only:		
	----- Record players, other than those operated by coins, banknotes, bank cards, tokens or by other means of payment:		
8519.89.1000	----- Without loudspeaker	No.	
8519.89.2000	----- Other	No.	
8519.89.3000	---- Other	No.	
8521	- Video recording or reproducing apparatus; whether or not incorporating a video tuner:		
8521.10.0000	-- Magnetic tape-type	No.	
8521.90.0000	-- Other	No.	
8522	- Parts and accessories suitable for use solely or principally with the apparatus of headings 8519 or 8521:		
8522.10.0000	-- Pickup cartridges	No.	
8522.90	-- Other:		
8522.90.0010	--- Magnetic recording and reproducing heads	X	
8522.90.0092	--- Other	X	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8523	- Discs, tapes, solid-state non-volatile storage devices, "smart cards" and other media for the recording of sound or of other phenomena, whether or not recorded, including matrices and masters for the production of discs, but excluding products of Chapter 37:		
	-- Magnetic media:		
8523.21.0000	--- Cards incorporating a magnetic stripe	No.	
8523.29	--- Other:		
8523.29.1000	---- Unrecorded magnetic media	No.	
	---- Other:		
8523.29.2000	----- Magnetic tapes for reproducing phenomena other than sound or image	No.	
	----- Other magnetic tapes:		
	----- Of a width not exceeding 4 mm:		
8523.29.3000	----- News sound recordings related to current events	No.	
	----- Other:		
8523.29.4010	----- Sound recordings on cassette tapes	No.	
8523.29.4020	----- Other	No.	
	----- Of a width exceeding 4 mm but not exceeding 6.5 mm:		
	----- Video tape recordings:		
8523.29.5010	----- In cassettes	No.	
8523.29.5020	----- Other	No.	
8523.29.6000	----- Other	No.	
	----- Of a width exceeding 6.5 mm:		
	----- Video tape recordings:		
8523.29.7010	----- Of a width not exceeding 16 mm, in cassettes	No.	
8523.29.7020	----- Other	No.	
8523.29.8000	----- Other	No.	
8523.29.9000	----- Other	X	
	-- Optical media:		
8523.41.0000	--- Unrecorded	No.	
8523.49	--- Other:		
	---- For reproducing phenomena other than sound or image:		
8523.49.2010	----- Prepackaged software for automatic data processing machines, of a kind sold at retail	No.	
8523.49.2020	----- Other	No.	
8523.49.3000	---- For reproducing sound only	No.	
	---- Other:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8523.49.4000	----- For reproducing representations of instructions, data, sound, and image, recorded in a machine readable binary form, and capable of being manipulated or providing interactivity to a user, by means of an automatic data processing machine; proprietary format recorded disks	No.	
8523.49.5000	----- Other	No.	
	-- Semiconductor media:		
8523.51.0000	--- Solid-state non-volatile storage devices	No.	
8523.52	--- "Smart cards"		
8523.52.0010	---- Unrecorded	No.	
8523.52.0090	---- Other	No.	
8523.59.0000	--- Other	X	
8523.80	-- Other:		
8523.80.1000	--- Phonograph records	No.	
8523.80.2000	--- Other	X	
8525	- Transmission apparatus for radio-broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras; digital cameras and video camera recorders:		
8525.50	-- Transmission apparatus:		
	--- Television:		
8525.50.2010	---- Apparatus for the reception of television signals relayed by television satellite	No.	
8525.50.2050	---- Other	X	
	--- Other:		
	---- Transmitters:		
8525.50.6010	----- For use in civil aircraft	No.	
8525.50.6050	----- Other	No.	
	---- Other (transmission apparatus):		
8525.50.8020	----- For use in civil aircraft	X	
8525.50.8040	----- Other	X	
8525.60	-- Transmission apparatus incorporating reception apparatus:		
	--- Transceivers:		
8525.60.1010	---- Citizens Band (CB)	No.	
8525.60.1020	---- Low-power radiotelephonic transceivers operating on frequencies from 49.82 to 49.90 MHZ (including walkie talkies)	No.	
	--- Other:		
8525.60.1025	----- For use in civil aircraft	No.	
	----- Other:		
8525.60.1035	----- Hand-held	No.	
	----- Other:		
8525.60.1045	----- Marine VHF-FM	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8525.60.1055	----- Other (transceivers)	No.	
8525.60.2000	--- Other	X	
8525.80	-- Television cameras, digital cameras and video camera recorders:		
	--- Television cameras:		
8525.80.0035	---- Color	No.	
8525.80.0045	---- Other	No.	
8525.80.4000	--- Digital still image video cameras	No.	
	--- Other:		
	---- Camcorders:		
8525.80.5010	----- 8 mm	No.	
8525.80.5020	----- Other	No.	
8525.80.5050	---- Other	No.	
8526	- Radar apparatus, radio navigational aid apparatus and radio remote control apparatus:		
8526.10	-- Radar apparatus:		
8526.10.0010	--- For use in civil aircraft	No.	
	--- Other:		
8526.10.0020	---- Designed for boat or ship installation	No.	
8526.10.0070	---- Other	No.	
	-- Other:		
8526.91	--- Radio navigational aid apparatus:		
8526.91.0010	---- For use in civil aircraft	No.	
	---- Other:		
8526.91.0030	----- Reception only apparatus	No.	
8526.91.0070	----- Other	No.	
8526.92.0000	--- Radio remote control apparatus	X	
8527	- Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock:		
	-- Radio-broadcast receivers capable of operating without an external source of power:		
8527.12.0000	--- Pocket-size radio cassette players	No.	
8527.13	--- Other apparatus combined with sound recording or reproducing apparatus:		
8527.13.1100	---- Combinations incorporating tape players which are incapable of recording	No.	
	---- Other:		
8527.13.2000	----- Radio-tape recorder combinations	No.	
8527.13.4000	----- Radio-phonograph combinations	No.	
	----- Other	No.	
8527.13.6000	----- Other	No.	
8527.19.0000	--- Other	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
	-- Radio-broadcast receivers not capable of operating without an external source of power, of a kind used in motor vehicles:		
8527.21.0000	--- Combined with sound recording or reproducing apparatus	No.	
8527.29.0000	--- Other	No.	
	-- Other:		
8527.91.0000	--- Combined with sound recording or reproducing apparatus	No.	
8527.92.0000	--- Not combined with sound recording or reproducing apparatus but combined with a clock	No.	
8527.99	--- Other:		
	---- Receivers:		
8527.99.3005	----- For use in civil aircraft	No.	
8527.99.3060	----- Other	No.	
8527.99.5030	----- Other	X	
8528	- Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus:		
	-- Cathode-ray tube monitors:		
8528.42.0000	--- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471	No.	
8528.49	--- Other:		
8528.49.0100	---- Color	No.	
8528.49.8000	---- Monochrome	No.	
	-- Other monitors:		
8528.52.0000	--- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471	No.	
8528.59	--- Other:		
8528.59.0200	---- Color	No.	
8528.59.6000	---- Monochrome	No.	
	-- Projectors:		
8528.62.0000	--- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471	No.	
8528.69	--- Other:		
8528.69.0100	---- Color	No.	
8528.69.7000	---- Monochrome	No.	
	-- Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus:		
8528.71.0000	--- Not designed to incorporate a video display or screen	No.	
8528.72	--- Other, color:		
8528.72.3000	---- Incorporating video recording or reproducing apparatus	No.	
	---- Other reception apparatus for television:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
	----- Having a picture tube:		
8528.72.6005	----- Combined with radio-broadcast receivers or sound recording apparatus	No.	
	----- Other:		
8528.72.6010	----- Not exceeding 52 cm (20 inches)	No.	
8528.72.6040	----- Exceeding 52 cm (20 inches)	No.	
8528.72.6057	----- Not having a picture tube	No.	
8528.73.0000	--- Other, monochrome	No.	
8529	- Parts suitable for use solely or principally with the apparatus of headings 8525 to 8528:		
8529.10	-- Antennas and antenna reflectors of all kinds; parts suitable for use therewith:		
	--- Television:		
	---- Antennas:		
8529.10.2020	----- Receiving only	No.	
8529.10.2050	----- Other	No.	
8529.10.2090	---- Other	X	
8529.10.4000	--- Radar, radio navigational aid and radio remote control	X	
8529.10.9000	--- Other	X	
8529.90	-- Other:		
	--- Of television apparatus:		
8529.90.1000	---- Tuners	X	
	---- Other:		
8529.90.3000	----- Parts of television cameras	X	
	----- Other:		
8529.90.3540	----- Convergence assemblies, flybacks, focus coils and degaussing coils	X	
8529.90.3800	----- Other	X	
	--- Of radar, radio navigational aid or radio remote control apparatus:		
8529.90.4720	---- Of radar apparatus	X	
8529.90.4740	---- Of radio navigational aid apparatus (except radar)	X	
8529.90.4760	---- Other	X	
8529.90.6000	--- Other	X	
8530	- Electrical signaling, safety or traffic control equipment for rail-ways, streetcar lines, subways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 8608); parts thereof:		
8530.10.0000	-- Equipment for railways, streetcar lines or subways	X	
8530.80.0000	-- Other equipment	X	
8530.90.0000	-- Parts	X	
8531	- Electric sound or visual signaling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 8512 or 8530; parts thereof:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8531.10	-- Burglar or fire alarms and similar apparatus:		
	--- Smoke detectors:		
8531.10.0015	---- Battery operated	No.	
8531.10.0025	---- Other	No.	
	--- Other:		
8531.10.0035	---- Burglar alarms	No.	
8531.10.0045	---- Other	No.	
8531.20	-- Indicator panels incorporating liquid crystal devices (LCD's) or light emitting diodes (LED):		
8531.20.0020	--- Incorporating LCD's	X	
8531.20.0040	--- Other	X	
8531.80	-- Other apparatus:		
	--- Indicator panels:		
8531.80.0010	---- Incorporating electric discharge (fluorescent) devices	X	
8531.80.0025	---- Other	X	
8531.80.0030	--- Horns	X	
8531.80.0040	--- Other sound signaling apparatus	X	
8531.80.0050	--- Other	X	
8531.90.0002	-- Parts	X	
8532	- Electrical capacitors, fixed, variable or adjustable (preset); parts thereof:		
8532.10.0000	-- Fixed capacitors designed for use in 50/60 Hz circuits and having a reactive power handling capacity of not less than 0.5 kvar (power capacitors)	No.	
	-- Other fixed capacitors:		
8532.21	--- Tantalum electrolytic:		
8532.21.0020	---- Metal case	No.	
	---- Other:		
8532.21.0040	----- Dipped	No.	
8532.21.0050	----- Designed for surface mounting (chips)	No.	
8532.21.0080	----- Other	No.	
8532.22	--- Aluminum electrolytic:		
8532.22.0020	---- Not exceeding 18 mm diameter	No.	
8532.22.0040	---- Exceeding 18 mm but not exceeding 35 mm in diameter	No.	
8532.22.0055	---- Exceeding 35 mm but not exceeding 51 mm in diameter	No.	
8532.22.0085	---- Exceeding 51 mm in diameter	No.	
8532.23	--- Ceramic dielectric, single layer:		
8532.23.0020	---- Chips	No.	
	---- Other:		
8532.23.0040	----- Axial leads	No.	
8532.23.0060	----- Radial leads	No.	
8532.24	--- Ceramic dielectric, multilayer:		
8532.24.0020	---- Chips	No.	
	---- Other:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8532.24.0040	----- Axial leads	No.	
8532.24.0060	----- Radial leads	No.	
8532.25	--- Dielectric of paper or plastics: ---- Alternating current (AC) service:		
8532.25.0010	----- Less than 300 V	No.	
8532.25.0020	----- 300 V or greater but less than 600 V	No.	
8532.25.0030	----- 600 V or greater but less than 1,000 V	No.	
8532.25.0040	----- 1,000 V or greater	No.	
	---- Other:		
8532.25.0050	----- Leadless	No.	
8532.25.0060	----- Axial leads	No.	
8532.25.0070	----- Radial leads	No.	
8532.25.0080	----- Other	No.	
8532.29	--- Other:		
8532.29.0020	---- Mica dielectric	No.	
8532.29.0040	---- Other	No.	
8532.30	-- Variable or adjustable (preset) capacitors:		
8532.30.0010	--- Mica, ceramic and glass dielectric	No.	
8532.30.0090	--- Other	No.	
8532.90.0000	-- Parts	X	
8533	- Electrical resistors (including rheostats and potentiometers), other than heating resistors; parts thereof:		
8533.10	-- Fixed carbon resistors, composition or film types: --- Designed for surface mounting (SMD) by contact:		
8533.10.0020	---- Having more than two terminals (resistor networks)	No.	
8533.10.0042	---- Having two terminals	No.	
8533.10.0057	--- Having more than two leads (resistor networks)	No.	
8533.10.0070	--- Having two leads	No.	
	-- Other fixed resistors:		
8533.21	--- For a power handling capacity not exceeding 20 W: ---- Designed for surface mounting (SMD) by contact:		
8533.21.0025	----- Having more than two terminals (resistor networks)	No.	
8533.21.0045	----- Having two terminals	No.	
8533.21.0075	---- Having more than two leads (resistor networks)	No.	
	---- Other:		
8533.21.0080	----- Wirewound	No.	
8533.21.0090	----- Other (including metal film, metal oxide and thick cement film)	No.	
8533.29.0000	--- Other -- Wirewound variable resistors, including rheostats and potentiometers:		
8533.31.0000	--- For a power handling capacity not exceeding 20 W	No.	
8533.39	--- Other:		
8533.39.0040	---- Dimmers	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8533.39.0080	---- Other	No.	
8533.40	-- Other variable resistors, including rheostats and potentiometers:		
8533.40.0040	--- Rheostat or resistor type motor starters and controllers	No.	
8533.40.0080	--- Other	No.	
8533.90.0000	-- Parts	X	
8534	- Printed circuits:		
	-- Plastics impregnated, not flexible type:		
	--- Having a base wholly of plastics impregnated glass:		
8534.00.0020	---- With 3 or more layers of conducting materials	No.	
8534.00.0040	---- Other	No.	
8534.00.0050	--- Having a base wholly of impregnated paper	No.	
8534.00.0070	--- Other	No.	
	-- Other:		
8534.00.0080	--- Flexible type	No.	
8534.00.0085	--- Having a ceramic base	No.	
8534.00.0095	--- Other	No.	
8535	- Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1,000 V:		
8535.10	-- Fuses:		
8535.10.0020	--- In circuits of 2,300 V or more	No.	
8535.10.0040	--- Other	No.	
	-- Automatic circuit breakers:		
8535.21.0000	--- For a voltage of less than 72.5 kV	No.	
8535.29	--- Other:		
8535.29.0020	---- In circuits of 345 kV or more	No.	
8535.29.0040	---- Other	No.	
8535.30	-- Isolating switches and make-and-break switches:		
8535.30.0040	--- Knife	No.	
8535.30.0080	--- Other	No.	
8535.40.0000	-- Lightning arresters, voltage limiters and surge suppressors	X	
8535.90	-- Other:		
8535.90.8020	--- Terminals, electrical splices and electrical couplings	No.	
8535.90.8040	--- Other connectors	No.	
8535.90.8090	--- Other	No.	
8536	- Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders and other connectors, junction boxes), for a voltage not exceeding 1,000 V; connectors for optical fibers, optical fiber bundles or cables:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8536.10	-- Fuses:		
8536.10.0020	--- Glass cartridge	No.	
8536.10.0040	--- Other	No.	
8536.20	-- Automatic circuit breakers:		
8536.20.0020	--- Molded case	No.	
8536.20.0040	--- Other	No.	
8536.30.0000	-- Other apparatus for protecting electrical circuits	X	
	-- Relays:		
8536.41	--- For a voltage not exceeding 60 V:		
8536.41.0005	---- Automotive signaling flashers	No.	
	---- Other:		
	----- With contacts rated at less than 10 A:		
8536.41.0020	----- Electromechanical	No.	
8536.41.0030	----- Other	No.	
	----- Other:		
8536.41.0045	----- Contactors	No.	
	----- Other:		
8536.41.0050	----- Electromechanical	No.	
8536.41.0060	----- Other	No.	
8536.49	--- Other:		
	---- With contacts rated at less than 10 A:		
8536.49.0050	---- Electromechanical	No.	
8536.49.0055	---- Other	No.	
	---- Other:		
8536.49.0065	---- Contactors	No.	
	---- Other:		
8536.49.0075	----- Electromechanical	No.	
8536.49.0080	----- Other	No.	
8536.50	-- Other switches:		
8536.50.4000	--- Motor starters	No.	
	--- Other:		
8536.50.7000	---- Electronic AC switches consisting of optically coupled input and output circuits (insulated thyristor AC switches); electronic switches, including temperature protected switches, consisting of a transistor and a logic chip (chip-on-chip technology); electro- mechanical snap-action switches for a current not exceeding 11 amps	No.	
	---- Other:		
	----- Rotary:		
8536.50.9020	----- Rated at not over 5 A	No.	
8536.50.9025	----- Rated at over 5 A	No.	
	----- Push-button:		
8536.50.9030	----- Rated at not over 5 A	No.	
8536.50.9035	----- Rated at over 5 A	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8536.50.9040	----- Snap-action, other than limit	No.	
8536.50.9045	----- Knife	No.	
8536.50.9050	----- Slide	No.	
8536.50.9055	----- Limit	No.	
8536.50.9065	----- Other	No.	
	-- Lamp-holders, plugs and sockets:		
8536.61.0000	--- Lamp-holders	No.	
8536.69	--- Other:		
8536.69.4010	---- Coaxial connectors	No.	
8536.69.4020	---- Cylindrical multicontact connectors	No.	
8536.69.4030	---- Rack and panel connectors	No.	
8536.69.4040	---- Printed circuit connectors	No.	
8536.69.5050	---- Other	X	
8536.70.0000	-- Connectors for optical fibers, optical fiber bundles or cables		X
8536.90	-- Other apparatus:		
8536.90.4000	--- Terminals, electrical splices and electrical couplings, wafer probers		X
	--- Other:		
8536.90.8010	---- Electrical distribution ducts	X	
8536.90.8030	---- Junction boxes	No.	
8536.90.8085	---- Other	X	
8537	- Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of chapter 90, and numerical control apparatus other than switching apparatus of heading 8517:		
8537.10	-- For a voltage not exceeding 1,000 V:		
8537.10.6000	--- Motor control centers	No.	
8537.10.9020	--- Switchgear assemblies and switchboards	No.	
8537.10.9030	--- Numerical controls for controlling machine tools	No.	
	--- Other:		
8537.10.9050	---- Panel boards and distribution boards	No.	
8537.10.9060	---- Programmable controllers	No.	
8537.10.9090	---- Other	No.	
8537.20	-- For a voltage exceeding 1,000 V:		
8537.20.0020	--- Switchgear assemblies and switchboards		No.
8537.20.0040	--- Other		No.
8538	- Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537:		

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8538.10.0000	-- Boards, panels, consoles, desks, cabinets and other bases for the goods of heading 8537, not equipped with their apparatus	X	
8538.90	-- Other:		
8538.90.7020	--- Of automatic circuit breakers	X	
	--- Other:		
8538.90.7040	---- Metal contacts	X	
8538.90.7060	---- Other parts of switchgear, switchboards, panel boards and distribution boards	X	
8538.90.7080	---- Other	X	
8539	- Electric filament or discharge lamps, including sealed beam lamp units and ultraviolet or infrared lamps; arc lamps; light-emitting diode (LED) lamps; parts thereof:		
8539.10	-- Sealed beam lamp units:		
8539.10.0020	--- Under 15.24 cm (6 inches)	No.	
8539.10.0040	--- 15.24 cm (6 inches) or over	No.	
	-- Other filament lamps, excluding ultraviolet or infrared lamps:		
8539.21	--- Tungsten halogen:		
8539.21.2000	---- Designed for a voltage not exceeding 100 V	No.	
	---- Other:		
8539.21.4040	----- Of a power less than 500 W	No.	
8539.21.4080	----- Of a power of 500 W or more	No.	
8539.22	--- Other, of a power not exceeding 200 W and for a voltage exceeding 100 V:		
8539.22.4000	---- Christmas-tree lamps	No.	
	---- Other:		
	----- Of a power not exceeding 150 W:		
8539.22.8010	----- 3-way	No.	
8539.22.8030	----- Decorative	No.	
8539.22.8050	----- Other, including standard household	No.	
8539.22.8070	----- Of a power exceeding 150 W	No.	
8539.29	--- Other:		
8539.29.2500	---- Designed for a voltage not exceeding 100 V	No.	
8539.29.4000	---- Designed for a voltage exceeding 100 V	No.	
	-- Discharge lamps, other than ultraviolet lamps:		
8539.31.0000	--- Fluorescent, hot cathode	No.	
8539.32	--- Mercury or sodium vapor lamps; metal halide lamps:		
8539.32.0020	---- Sodium vapor	No.	
8539.32.0040	---- Mercury vapor	No.	
8539.32.0090	---- Other	No.	
8539.39.0000	--- Other	No.	
	-- Ultraviolet or infrared lamps; arc lamps:		
8539.41.0000	--- Arc lamps	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8539.49	--- Other:		
8539.49.0040	---- Ultraviolet lamps	No.	
8539.49.0080	---- Other	No.	
8539.50.0000	--- Light-emitting diode (LED) lamps	No.	
8539.90.0000	-- Parts	X	
8540	- Thermionic, cold cathode or photocathode tubes (for example, vacuum or vapor or gas filled tubes, mercury arc rectifying tubes, cathode-ray tubes, television camera tubes); parts thereof:		
	-- Cathode-ray television picture tubes, including video monitor cathode-ray tubes:		
8540.11	--- Color:		
	---- Having a video display diagonal:		
8540.11.0035	----- Not exceeding 50 cm (20 inches)	No.	
8540.11.0070	----- Exceeding 50 cm (20 inches) but not exceeding 67 cm (26 inches)	No.	
8540.11.0080	----- Exceeding 67 cm (26 inches)	No.	
8540.12.0000	--- Monochrome	No.	
8540.20	-- Television camera tubes; image converters and intensifiers; other photocathode tubes:		
8540.20.2000	--- Cathode-ray tubes	No.	
8540.20.4000	--- Other	No.	
8540.40	-- Data/graphic display tubes, monochrome; data/graphic display tubes, color, with a phosphor dot screen pitch smaller than 0.4 mm:		
8540.40.1010	--- Color	No.	
8540.40.1050	--- Other	No.	
8540.60	-- Other cathode-ray tubes:		
	--- Having a video display diagonal:		
8540.60.0055	---- Not exceeding 36 cm (14 inches)	No.	
8540.60.0080	---- Exceeding 36 cm (14 inches)	No.	
	-- Microwave tubes (for example, magnetrons, klystrons, traveling wave tubes, carcinotrons), excluding grid- controlled tubes:		
8540.71	--- Magnetrons:		
8540.71.2000	---- Modified for use as parts of microwave ovens	No.	
8540.71.4000	---- Other	No.	
8540.79	--- Other:		
8540.79.1000	---- Klystrons	No.	
8540.79.2000	---- Other	No.	
	-- Other tubes:		
8540.81.0000	--- Receiver or amplifier tubes	No.	
8540.89	--- Other:		
8540.89.0020	---- Gas and vapor electron tubes	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8540.89.0040	---- Diodes, triodes and tetrodes	No.	
8540.89.0060	---- Light-sensing tubes	No.	
8540.89.0080	---- Other tubes	No.	
	-- Parts:		
8540.91	--- Of cathode-ray tubes:		
8540.91.2000	---- Deflection coils	X	
8540.91.4000	---- Other	X	
8540.99.0000	--- Other	X	
8541	- Diodes, transistors and similar semiconductor devices; photo-sensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED); mounted piezoelectric crystals; parts thereof:		
8541.10	-- Diodes, other than photosensitive or light-emitting diodes (LED):		
8541.10.0040	--- Unmounted chips, dice and wafers	No.	
	--- Other:		
8541.10.0050	---- Zener	No.	
8541.10.0060	---- Microwave	No.	
	---- Other:		
8541.10.0070	----- With a maximum current of 0.5 A or less	No.	
8541.10.0080	----- Other	No.	
	-- Transistors, other than photosensitive transistors:		
8541.21	--- With a dissipation rate of less than 1 W:		
8541.21.0040	---- Unmounted chips, dice and wafers	No.	
8541.21.0080	---- Other	No.	
8541.29	--- Other:		
8541.29.0040	---- Unmounted chips, dice and wafers	No.	
8541.29.0080	---- Other	No.	
8541.30	-- Thyristors, diacs and triacs, other than photosensitive devices:		
8541.30.0040	--- Unmounted chips, dice and wafers	No.	
8541.30.0080	--- Other	No.	
8541.40	-- Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED):		
8541.40.2000	--- Light-emitting diodes (LED)	No.	
	--- Other diodes:		
8541.40.6010	---- Unmounted chips, dice and wafers	No.	
	---- Other:		
	----- Solar cells:		
8541.40.6020	----- Assembled into modules or made up into panels	No.	
8541.40.6030	----- Other	No.	
8541.40.6050	----- Other	No.	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
	--- Transistors:		
8541.40.7040	---- Unmounted chips, dice and wafers	No.	
8541.40.7080	---- Other	No.	
	--- Other:		
8541.40.8000	---- Optical coupled isolators	No.	
8541.40.9500	---- Other	No.	
8541.50	-- Other semiconductor devices:		
8541.50.0040	--- Unmounted chips, dice and wafers	No.	
8541.50.0080	--- Other	No.	
8541.60	-- Mounted piezoelectric crystals:		
	--- Quartz designed for operating frequencies of:		
8541.60.0025	---- Not exceeding 20 MHZ	No.	
8541.60.0060	---- Exceeding 20 MHZ	No.	
8541.60.0080	--- Other	No.	
8541.90.0000	-- Parts	X	
8542	- Electronic integrated circuits; parts thereof:		
	-- Electronic integrated circuits:		
8542.31.0000	--- Processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	No.	
8542.32	--- Memories:		
	---- Dynamic read-write random access:		
8542.32.0015	----- Not over 1 gigabit	No.	
8542.32.0023	----- Over 1 gigabit	No.	
8542.32.0040	---- Static read-write random access (SRAM)	No.	
8542.32.0050	---- Electrically erasable programmable read-only memory (EEPROM)	No.	
8542.32.0060	---- Erasable (except electrically) programmable read-only memory (EPROM)	No.	
8542.32.0070	---- Other	No.	
8542.33.0000	--- Amplifiers	No.	
8542.39.0000	--- Other	No.	
8542.90.0000	--- Parts	X	
8543	- Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter; parts thereof:		
8543.10.0000	-- Particle accelerators	No.	
8543.20.0000	-- Signal generators	No.	
8543.30.0000	-- Machines and apparatus for electroplating, electrolysis or electrophoresis	X	
8543.70	-- Other machines and apparatus:		
8543.70.2000	--- Physical vapor deposition apparatus	No.	
8543.70.4000	--- Electric synchros and transducers; flight data recorders; defrosters and demisters with electric resistors for aircraft	X	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8543.70.6000	--- Articles designed for connection to telegraphic or telephonic apparatus or instruments or to telegraphic or telephonic networks	X	
8543.70.7100	--- Electric luminescent lamps	No.	
	--- Other:		
8543.70.8000	---- Microwave amplifiers	No.	
	---- Other:		
8543.70.8500	----- For electrical nerve stimulation	No.	
	----- Other:		
8543.70.9610	----- Amplifiers	No.	
8543.70.9620	----- Special effects pedals for use with musical instruments	No.	
	----- Other	X	
8543.90	-- Parts:		
8543.90.1100	--- Of physical vapor disposition apparatus of subheading 8543.70	X	
		X	
8543.90.8040	--- Of particle accelerators	X	
8543.90.9000	--- Other	X	
8544	- Insulated (including enameled or anodized) wire, cable (including coaxial cable) and other insulated electrical conductors, whether or not fitted with connectors; optical fiber cables, made up of individually sheathed fibers, whether or not assembled with electric conductors or fitted with connectors:		
	-- Winding wire:		
8544.11	--- Of copper:		
8544.11.0020	---- 33 AWG (0.18 mm in diameter) and finer	kg	
8544.11.0030	---- 22 AWG (0.64 mm in diameter) and finer but larger than 33 AWG (0.18 mm in diameter)	kg	
8544.11.0050	---- Other	kg	
8544.19.0000	--- Other	kg	
8544.20.0000	-- Coaxial cable and other coaxial electric conductors	kg	
8544.30.0000	-- Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	X	
	-- Other electric conductors, for a voltage not exceeding 1,000 V:		
8544.42.0000	--- Fitted with connectors	X	
8544.49	--- Other:		
8544.49.1500	---- For voltage not exceeding 80 V	kg	
	---- Other:		
	----- Of copper:		
8544.49.3040	----- For a voltage exceeding 600 V	kg	
8544.49.3080	----- Other	kg	
8544.49.9000	----- Other	kg	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8544.60	-- Other electric conductors, for a voltage exceeding 1,000 V:		
8544.60.2000	--- Fitted with connectors	X	
	--- Other:		
8544.60.4000	---- Of copper	kg	
8544.60.6000	---- Other	kg	
8544.70.0000	-- Optical fiber cables	fbr m	
8545	- Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon, with or without metal, of a kind used for electrical purposes:		
	-- Electrodes:		
8545.11.0000	--- Of a kind used for furnaces	kg	
8545.19.0000	--- Other	kg	
8545.20.0000	-- Brushes	kg	
8545.90.0000	-- Other	kg	
8546	- Electrical insulators of any material:		
8546.10.0000	-- Of glass	No.	
8546.20	-- Of ceramics:		
	--- Used in high-voltage, low-frequency electrical systems:		
8546.20.0030	---- Commonly known as suspension, pin-type or line post insulators	No.	
8546.20.0060	---- Other	No.	
8546.20.0090	--- Other	No.	
8546.90.0000	-- Other	No.	
8547	- Insulating fittings for electrical machines, appliances or equipment, being fittings wholly of insulating material apart from any minor components of metal (for example, threaded sockets) incorporated during molding solely for purposes of assembly, other than insulators of heading 8546; electrical conduit tubing and joints therefor, of base metal lined with insulating material:		
8547.10.0000	-- Insulating fittings of ceramics	No.	
8547.20.0000	-- Insulating fittings of plastics	No.	
8547.90	-- Other:		
8547.90.0010	--- Other insulating fittings (except of ceramics or plastics)	No.	
	--- Electrical conduit tubing and joints therefor, of base metal lined with insulating material:		
8547.90.0020	---- Conduit tubing (rigid or flexible)	kg	
	---- Joints:		
8547.90.0030	----- Threaded	kg	
8547.90.0040	----- Other	kg	

Schedule B No. and Headings	Commodity Description	Unit of Quantity	Second Quantity
8548	- Waste and scrap of primary cells, primary batteries and electric storage batteries; spent primary cells, spent primary batteries and spent electric storage batteries; electrical parts of machinery or apparatus, not specified or included elsewhere in this chapter:		
8548.10	-- Waste and scrap of primary cells, primary batteries and electric storage batteries; spent primary cells, spent primary batteries and spent electric storage batteries:		
	--- Spent primary cells, spent primary batteries and spent electric storage batteries:		
	---- For recovery of lead:		
8548.10.0540	----- Lead-acid storage batteries, of a kind used for starting engines	No.	kg
8548.10.0580	----- Other	No.	kg
8548.10.1500	---- Other	kg	
	--- Other:		
8548.10.2500	---- For recovery of lead	No.	kg
8548.10.3500	---- Other	kg	
8548.90.0100	-- Other	X	