

Canadian Imports from the United States 2023 Product List - Electrical and Electronic Appliances or Equipment

HS Code	Product Category	Total Value \$	(CDN % of Total Canadian Imports	% of Total Imports from the US	% US Imports in Product Category
Total Canadian Imports		754,136,843,000	100%		100%
Total Imports from the US		373,685,991,000	50%	100%	100%
XVI	Machinery; Mechanical, Electrical and Electronic Appliances or Equipment	71,483,000,000	9.4788%	19.1292%	38.57%
85	Electrical mchy equip parts thereof; sound recorder etc	19,428,569,449	2.5763%	5.1992%	27.28%
8501	Electric motors and generators, excluding generating sets	898,875,177	0.1192%	0.2405%	40.21%
850110	Electric motors, of an output not exceeding 37.5 W	143,734,828	0.0191%	0.0385%	
850120	Universal AC/DC motors, of an output exceeding 37.5 W	11,122,558	0.0015%	0.0030%	
850131	DC motors, DC generators, electric, of an output not exceeding 750 W	106,208,687	0.0141%	0.0284%	
850132	DC motors, DC generators, electric, of an output > 750 W but not <= 75 kW	94,399,190	0.0125%	0.0253%	
850133	DC motors, DC generators, electric, of an output > 75 kW but <= 375 kW	6,388,321	0.0008%	0.0017%	
850134	DC motors, DC generators, electric, of an output exceeding 375 kW	26,067,508	0.0035%	0.0070%	
850140	AC motors, electric, single-phase, nos	137,581,742	0.0182%	0.0368%	
850151	AC motors, electric, multi-phase, of an output not exceeding 750 W	44,438,329	0.0059%	0.0119%	
850152	AC motors, electric, multi-phase, of an output > 750 W but <= 75 kW	107,876,885	0.0143%	0.0289%	
850153	AC motors, electric, multi-phase, of an output exceeding 75 kW	137,822,554	0.0183%	0.0369%	
850161	AC generators, alternators, electric, of an output not exceeding 75 kVA	26,587,004	0.0035%	0.0071%	
850162	AC generators, alternators, electric, of an output > 75 kVA <= 375 kVA	24,447,202	0.0032%	0.0065%	
850163	AC generators, alternators, electric, of output > 375 kVA <= 750 kVA	1,081,368	0.0001%	0.0003%	
850164	AC generators, electric, of an output exceeding 750 kVA	29,602,657	0.0039%	0.0079%	
850171	DC generators, photovoltaic, of an output not exceeding 50 W	174,903	0.0000%	0.0000%	
850172	DC generators, photovoltaic, of an output exceeding 50 W	971,899	0.0001%	0.0003%	
850180	AC generators (alternators), photovoltaic	369,542	0.0000%	0.0001%	
8502	Electric generating sets and rotary converters	780,456,559	0.1035%	0.2089%	43.43%
850211	Generating sets, diesel or semi-diesel engines, of an output <= 75 kVA	133,948,249	0.0178%	0.0358%	
850212	Generating sets, diesel or semi-diesel, exceeding 75 kVA but <= 375 kVA	109,647,147	0.0145%	0.0293%	
850213	Generating sets, diesel or semi-diesel engines, of an output exceeding 375 kVA	215,246,443	0.0285%	0.0576%	
850220	Generating sets, with spark-ignition internal combustion piston engines	270,584,584	0.0359%	0.0724%	
850231	Electric generating sets, wind-powered	17,258,757	0.0023%	0.0046%	
850239	Electric generating sets, nos	32,101,748	0.0043%	0.0086%	
850240	Electric rotary converters	1,669,631	0.0002%	0.0004%	
8503	Parts,suitable for use solely or principally with machinos of Nos 85.01 or 85.02	153,601,233	0.0204%	0.0411%	35.04%
8504	Electrical transformers, static converters (for example rectifiers) & inductors	1,011,228,955	0.1341%	0.2706%	27.07%
850410	Ballasts for discharge lamps or tubes	2,949,889	0.0004%	0.0008%	
850421	Liquid dielectric transformers, having a power handling capacity <=650 kVA	51,051,268	0.0068%	0.0137%	
850422	Liq dielectric transf, having a power handling cap >650 kVA but <= 10,000 kVA	42,930,652	0.0057%	0.0115%	
850423	Liq dielectric transf, having a power handling capacity exceeding 10,000 kVA	3,123,100	0.0004%	0.0008%	

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850431	Transformers electric, power handling capacity not exceeding 1 kVA, nos	83,405,453	0.0111%	0.0223%	
850432	Transformers electric, power handling capacity > 1 kVA but <= 16 kVA, nos	13,159,538	0.0017%	0.0035%	
850433	Transformers electric, power handling capacity > 16 kVA but <= 500 kVA, nos	35,912,893	0.0048%	0.0096%	
850434	Transformers electric, having a power handling capacity exceeding 500 kVA, nos	20,349,284	0.0027%	0.0054%	
850440	Static converters, nos	639,466,981	0.0848%	0.1711%	
850450	Inductors, electric	29,713,430	0.0039%	0.0080%	
850490	Parts of electrical transformers, static converters and inductors	89,166,467	0.0118%	0.0239%	
8505	Electro-magnets; permanent magnets; magnetic chucks; clutches & brakes, etc	70,764,222	0.0094%	0.0189%	41.52%
850511	Permanent magnets and articles intended to become permanent magnets, of metal	14,636,698	0.0019%	0.0039%	
850519	Permanent magnets and articles intended to become permanent magnets, nos	16,821,159	0.0022%	0.0045%	
850520	Electro-magnetic couplings, clutches and brakes	14,857,454	0.0020%	0.0040%	
850590	Electro-magnets, nos, and parts of No 85.05	24,448,911	0.0032%	0.0065%	
8506	Primary cells and primary batteries	136,886,292	0.0182%	0.0366%	36.83%
850610	Manganose dioxide primary cells and batteries	80,324,998	0.0107%	0.0215%	
850630	Primary cells and batteries, of mercuric oxide	3,312	0.0000%	0.0000%	
850640	Primary cells and batteries, of silver oxide	762,726	0.0001%	0.0002%	
850650	Primary cells and batteries, of lithium	32,289,456	0.0043%	0.0086%	
850660	Primary cells and batteries, of air-zinc	2,329,714	0.0003%	0.0006%	
850680	Primary cells and primary batteries, nos	6,001,555	0.0008%	0.0016%	
850690	Parts of primary cells and primary batteries	15,174,531	0.0020%	0.0041%	
8507	Electric accumulators, incl separators therefor, w/n rectangular (incl square)	1,697,188,718	0.2251%	0.4542%	46.96%
850710	Lead-acid electric accumulators of a kind used for starting piston engines	511,189,496	0.0678%	0.1368%	
850720	Lead-acid electric accumulators, nos	282,495,316	0.0375%	0.0756%	
850730	Nickel-cadmium electric accumulators	14,286,266	0.0019%	0.0038%	
850750	Nickel-metal hydride electric accumulators, incl separators, w/n rectangular	3,199,522	0.0004%	0.0009%	
850760	Lithium-ion electric accumulators, including separators, w/n rectangular	837,625,896	0.1111%	0.2242%	
850780	Electric accumulators, nos	30,408,013	0.0040%	0.0081%	
850790	Parts of electric accumulators, including separators therefor	17,984,209	0.0024%	0.0048%	
8508	Electro-mechanical tools for wrkg in the hand, with self-contained elec-motor	34,426,727	0.0046%	0.0092%	5.95%
850811	Dom vacuum cleaner, w self-cntd elec mtr, pwr <= 1,500 W, dust bag/recept <= 20 l	14,085,238	0.0019%	0.0038%	
850819	Domestic vacuum cleaners, with self-contained electric motor, nos	7,922,520	0.0011%	0.0021%	
850860	Vacuum cleaners, nos	4,548,317	0.0006%	0.0012%	
850870	Parts of vacuum cleaners	7,870,652	0.0010%	0.0021%	
8509	Electro-mechanical domestic appliances, with self-contained electric motor	154,881,829	0.0205%	0.0414%	25.37%
850940	Domestic food grinders and mixers; fruit or vegetable juice extractors	69,026,648	0.0092%	0.0185%	
850980	Electro-mechanical domestic appliances, with self-contained electric motor, nos	79,756,061	0.0106%	0.0213%	
850990	Parts of electro-mech dom appliances with self-contained electric motor	6,099,120	0.0008%	0.0016%	

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8510	Shavers and hair clippers, with self-contained electric motor	28,051,145	0.0037%	0.0075%	18.85%
851010	Shavers, with self-contained electric motor	10,815,935	0.0014%	0.0029%	
851020	Hair clippers, with self-contained electric motor	9,568,867	0.0013%	0.0026%	
851030	Hair-removing electro-mech domestic appl, with self-contained electric motor	1,695,962	0.0002%	0.0005%	
851090	Parts of shavers,hair clippers&hair-removing appliances,w self-cntd electric mtr	5,970,381	0.0008%	0.0016%	
8511	Electrical ignition or starting equip, ex spark plugs/starter motors, etc	409,415,540	0.0543%	0.1096%	48.27%
851110	Spark plugs	47,174,415	0.0063%	0.0126%	
851120	Ignition magnetos, magneto-dynamos and magnetic flywheels	3,719,402	0.0005%	0.0010%	
851130	Distributors and ignition coils	35,491,862	0.0047%	0.0095%	
851140	Starter motors and dual purpose starter-generators	174,212,316	0.0231%	0.0466%	
851150	Generators and alternators	117,804,576	0.0156%	0.0315%	
851180	Glow plugs and other ignition or starting equipment, nos	17,812,876	0.0024%	0.0048%	
851190	Pts,of electrical ignition/start equip,used f spark/compr-ign int combu eng,etc	13,200,093	0.0018%	0.0035%	
8512	Electrical lighting or signalling equip, windscreen wipers, defrosters, etc	1,200,804,677	0.1592%	0.3213%	63.72%
851210	Lighting or signalling equipment, of a kind used on bicycles	550,716	0.0001%	0.0001%	
851220	Lighting or visual signalling equipment, nos	1,034,228,382	0.1371%	0.2768%	
851230	Sound signalling equipment	35,504,837	0.0047%	0.0095%	
851240	Windscreen wipers, defrosters and demisters	37,487,784	0.0050%	0.0100%	
851290	Parts of electrical lighting, signalling and defrosting equipment	93,032,958	0.0123%	0.0249%	
8513	Portable electric lamps designed to function by batt/magnetos,etc,o/t No 85.12	11,445,428	0.0015%	0.0031%	7.65%
851310	Portable electric lamps, designed to function by their own source of energy	11,036,753	0.0015%	0.0030%	
851390	Parts of portable elect lamps, designed to function by own source of energy	408,675	0.0001%	0.0001%	
8514	Industrial or laboratory elec furnaces & ovens; o ind or lab heating equipment	75,056,830	0.0100%	0.0201%	22.05%
851411	Furnaces and ovens,of resistance heated,electric,hot isostatic presses	269,161	0.0000%	0.0001%	
851419	Furnaces and ovens,of resistance heated,electric,o/t hot isostatic presses	10,615,542	0.0014%	0.0028%	
851420	Industrial or laboratory electric induction or dielectric loss furnaces & ovens	11,260,274	0.0015%	0.0030%	
851431	Furances and ovens, of electron beam, of industrial/laboratory equipment	4,159,656	0.0006%	0.0011%	
851432	Furances and ovens, of plasma and vacuum arc, of industrial/laboratory equipment	110,341	0.0000%	0.0000%	
851439	Furnaces and ovens, for Industrial or laboratory, electric , nos	6,400,007	0.0008%	0.0017%	
851440	Industrial/laboratory electric induction/dielectric loss heating equipment,nos	21,707,177	0.0029%	0.0058%	
851490	Parts of industrial or laboratory electric fumaces and ovens, nos	20,534,672	0.0027%	0.0055%	
8515	Electric,laser/photon beam or plasma arc soldering with cut capabilities, etc	477,684,746	0.0633%	0.1278%	68.43%
851511	Electric soldering irons and guns	572,236	0.0001%	0.0002%	
851519	Electric brazing or soldering machinos and apparatus, nos	5,567,087	0.0007%	0.0015%	
851521	Electric machinos,apparatus for resistance welding of metal fully or partly auto	114,572,458	0.0152%	0.0307%	
851529	Electric machinos and apparatus for resistance welding of metal, nos	5,554,954	0.0007%	0.0015%	

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851531	Electric mach & app for arc,inc plasma arc,welding of metals fully/partly auto	28,954,068	0.0038%	0.0077%	
851539	Electric machinos & apparatus for arc,including plasma arc,welding of metals,nos	78,650,003	0.0104%	0.0210%	
851580	Electric/laser/ultrasonic mach, etc, for weld/cut, nos,or for hot spray of metal	38,844,281	0.0052%	0.0104%	
851590	Parts of electric/laser/ultrasonic mach,etc,for weld/cut,nos or hot spray of met	204,969,659	0.0272%	0.0549%	
8516	Electric instantaneous water heaters, space htg; hair-dressing, e.g. hair dryers	673,996,479	0.0894%	0.1804%	26.24%
851610	Electric instantaneous or storage water heaters and immersion heaters	134,236,751	0.0178%	0.0359%	
851621	Electric space heating apparatus, having storage heating radiators	71,194	0.0000%	0.0000%	
851629	Electric space heating apparatus and electric soil heating apparatus, nos	32,909,171	0.0044%	0.0088%	
851631	Electro-thermic hair dryers	1,106,853	0.0001%	0.0003%	
851632	Electro-thermic hair-dressing apparatus, nos	1,837,125	0.0002%	0.0005%	
851633	Electro-thermic hand-drying apparatus	3,773,609	0.0005%	0.0010%	
851640	Electric smoothing irons	129,436	0.0000%	0.0000%	
851650	Microwave ovens	14,155,850	0.0019%	0.0038%	
851660	Ovens; cookers, cooking plates, boiling rings, grillers and roasters, elec,nos	370,511,501	0.0491%	0.0992%	
851671	Electro-thermic coffee or tea makers, domestic, nos	3,462,590	0.0005%	0.0009%	
851672	Electro-thermic toasters, domestic	236,929	0.0000%	0.0001%	
851679	Electro-thermic appliances, domestic, nos	9,465,949	0.0013%	0.0025%	
851680	Electric heating resistors	86,649,979	0.0115%	0.0232%	
851690	Parts of electro-thermic apparatus of No 85.16	15,449,542	0.0020%	0.0041%	
8517	Electrical app for line telephony or line telegraphy, incl curr line systems	1,137,882,160	0.1509%	0.3045%	6.64%
851711	Line telephone sets with cordless handsets	2,452,747	0.0003%	0.0007%	
851713	Smartphonos, for cellular networks or for other wireless networks	11,537,598	0.0015%	0.0031%	
851714	Telephonos, o/t smartphonos, for cellular networks/for other wireless networks	7,647,877	0.0010%	0.0020%	
851718	Telephone sets, nos; videophonos	19,141,908	0.0025%	0.0051%	
851761	Base stations, for transmission/reception of voice/images/other data	17,527,541	0.0023%	0.0047%	
851762	Machinos,f reception/conversion/transmission/regeneration of voice/images/o data	943,986,324	0.1252%	0.2526%	
851769	App,f transm/reception of voice/img/o data,incl f comm in wired/wrl network,nos	70,355,384	0.0093%	0.0188%	
851771	Parts,of aerals & aerial reflectors of all kinds,parts suitable f use therewith	7,913,065	0.0010%	0.0021%	
851779	Parts,of telephone sets,incl smartphonos & o tel f cell networks/o wireless ntwn	57,319,716	0.0076%	0.0153%	
8518	Microphonos & stands; loudspeakers;head-phonos/earphonos; sound amplifier sets	216,380,539	0.0287%	0.0579%	9.82%
851810	Microphonos and stands therefor	11,347,063	0.0015%	0.0030%	
851821	Single loudspeakers, mounted in the same enclosure	47,214,362	0.0063%	0.0126%	
851822	Multiple loudspeakers, mounted in the same enclosure	22,510,141	0.0030%	0.0060%	
851829	Loudspeakers, whether or not mounted in their enclosures, nos	44,464,773	0.0059%	0.0119%	
851830	Headphonos, earphonos and combined microphone/speaker sets	21,627,085	0.0029%	0.0058%	
851840	Audio-frequency electric amplifiers	33,901,947	0.0045%	0.0091%	
851850	Electric sound amplifier sets	24,718,438	0.0033%	0.0066%	
851890	Parts of microphonos, loudspeakers, headphonos, earphonos & elec sound ampli	10,596,730	0.0014%	0.0028%	

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8519	Turntables (record-decks), record-players, & o sound reproducing apparatus	21,988,600	0.0029%	0.0059%	23.05%
851920	Apparatus operated by coins, banknotes, bank cards, tokens or o means of payment	180,760	0.0000%	0.0000%	
851981	Sound recording/reproducing apparatus, using magnetic/optical/semiconductor media	10,943,904	0.0015%	0.0029%	
851989	Sound recording or reproducing apparatus, nos	10,271,945	0.0014%	0.0027%	
8521	Video recording or reproducing apparatus	17,982,861	0.0024%	0.0048%	16.32%
852110	Video recording or reproducing apparatus magnetic tape-type	403,724	0.0001%	0.0001%	
852190	Video recording or reproducing apparatus, nos	17,579,137	0.0023%	0.0047%	
8522	Parts and access suitable for use solely/princ w app of heading No 85.19/85.21	1,439,450	0.0002%	0.0004%	12.55%
852210	Pick-up cartridges	111,461	0.0000%	0.0000%	
852290	Parts and accessories of apparatus of Nos 85.19 to 85.21, nos	1,327,989	0.0002%	0.0004%	
8523	Prepared unrecorded media for sound record or sim record, o/t prod of ch 37	379,967,336	0.0504%	0.1017%	25.41%
852321	Cards incorp magnetic stripe, magnetic media, for rec sound/o phenom, o/t of Ch 37	31,529,621	0.0042%	0.0084%	
852329	Magnetic media, for recording sound or other phenomena, o/t of Chapter 37, nos	5,504,644	0.0007%	0.0015%	
852341	Optical media, magnetic, unrecorded, for recording sound/other phenomena, o/t Ch 37	599,900	0.0001%	0.0002%	
852349	Optical media, magnetic, recorded, nos, o/t of Chapter 37	170,244,979	0.0226%	0.0456%	
852351	Solid-state non-volatile storage devices, for reprod sound/o phenomena, o/t Ch 37	64,742,796	0.0086%	0.0173%	
852352	Smart cards semiconductor media, for recording sound/other phenomena	55,094,290	0.0073%	0.0147%	
852359	Semiconductor media, for recording sound/other phenomena, o/t Chapter 37, nos	7,200,130	0.0010%	0.0019%	
852380	Media, for recording sound/other phenomena, o/t products of Chapter 37, nos	45,050,976	0.0060%	0.0121%	
8524	Records, tapes, recorded for sound, incl matrices for the production of records	42,240,481	0.0056%	0.0113%	52.83%
852411	Flat panel disp modules, of LCD, w/n incorp touch-sens screen, w/o driv/control crt	1,882,826	0.0002%	0.0005%	
852412	Flat panel disp module, of OLED, w/n incorp touch-sens screen, w/o driv/control crt	83,558	0.0000%	0.0000%	
852419	Flat panel disp modules, w/n incorp touch-sens screen, w/o drivers/control crt, nos	233,010	0.0000%	0.0001%	
852491	Recorded media for reproducing phenomena o/t sound or image, nos	29,259,043	0.0039%	0.0078%	
852492	Flat panel display modules, of OLED, w/n incorporating touch-sensitive screens, nos	89,009	0.0000%	0.0000%	
852499	Recorded media for reproducing sound or image, nos	10,693,035	0.0014%	0.0029%	
8525	Transmission app for radio-telephony radio-broadcasting; television cameras	1,116,629,873	0.1481%	0.2988%	41.11%
852550	Transmission apparatus for radio-teleph/telegr/broad or tv	41,648,304	0.0055%	0.0111%	
852560	Transmission apparatus incorporating reception apparatus	119,337,068	0.0158%	0.0319%	
852581	Tv, digital cameras & video camera recorders, hi-sp gds spec Subhding Note 1 to Ch	6,186,233	0.0008%	0.0017%	
852582	Tv, dig & video camera/recorders, rad-hrd/tolerant gds spec Subhding Note 2 to Ch	830,417	0.0001%	0.0002%	
852583	Tv, digital & video camera/recorders, night vision gds spec Subhding Note 3 to Ch	1,313,683	0.0002%	0.0004%	
852589	Tv cameras, dig cameras & video camera recorders, o/t hi-sp, rad-hrd/tolerant/night	947,314,168	0.1256%	0.2535%	
8526	Radar apparatus, radio navigational app & radio remote control apparatus	395,380,568	0.0524%	0.1058%	45.41%
852610	Radar apparatus	194,169,440	0.0257%	0.0520%	
852691	Radio navigational aid apparatus	169,457,654	0.0225%	0.0453%	

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852692	Radio remote control apparatus	31,753,474	0.0042%	0.0085%	
8527	Reception app for radio-telephony or radio-broadcasting w/n combi w a clock	170,112,990	0.0226%	0.0455%	35.03%
852712	Pocket-size radio cassette-players,operating without an external source of power	2,732,182	0.0004%	0.0007%	
852713	Radio-broad rece combi w sound rec/reprod app,op w/o an ext source of power,nos	211,154	0.0000%	0.0001%	
852719	Radio-broadcast receivers capable of op w/o an external source of power, nos	934,790	0.0001%	0.0003%	
852721	Radio rece not capable of op w/o ext source of power for motor veh, combined	10,507,504	0.0014%	0.0028%	
852729	Radio rece not capable of op w/o ext source of power for motor vehicles, nos	147,533,618	0.0196%	0.0395%	
852791	Radio-broadcast receivers,combined w sound recording/reproducing app,nos	508,262	0.0001%	0.0001%	
852792	Radio-broad receivers,n combi w sound recording/reprod app,but combi w clock,nos	208,886	0.0000%	0.0001%	
852799	Radio-broadcasting receivers, nos	7,476,594	0.0010%	0.0020%	
8528	Tv receivers w/n incorp radio-broadcast rec,sound/video recording/repro app, etc	157,831,573	0.0209%	0.0422%	5.67%
852842	Cathode-ray tube monitors,connecting and used w data processing mach of No 84.71	627,610	0.0001%	0.0002%	
852849	Cathode-ray tube monitors, o/t for auto data processing systems of No 84.71, nos	1,117,983	0.0001%	0.0003%	
852852	Monitors, nos, connecting to and used with data processing machinos of No 84.71	93,121,744	0.0123%	0.0249%	
852859	Monitors, other than cathode-ray tube monitors, nos	47,328,487	0.0063%	0.0127%	
852862	Projectors, connecting to and used with data processing machinos of No 84.71	5,628,355	0.0007%	0.0015%	
852869	Projectors, nos	3,173,237	0.0004%	0.0008%	
852871	Reception app f television,not designed to incorporate a video display or screen	3,186,291	0.0004%	0.0009%	
852872	Reception apparatus for television, incorporating a colour video display/screen	3,563,655	0.0005%	0.0010%	
852873	Reception apparatus f television,incorporating a monochrome video display/screen	84,211	0.0000%	0.0000%	
8529	Parts suitable for use solely or princ with the app of headings 85.25-85.28	232,185,533	0.0308%	0.0621%	34.36%
852910	Aerials and aerial reflectors of all kinds; parts suitable for use therewith	152,810,238	0.0203%	0.0409%	
852990	Parts suitable for use solely or princ with the app of headings 85.25 to 85.28	79,375,295	0.0105%	0.0212%	
8530	Electrical signalling or traffic control equip for rlwy/roads,etc,o/t No 86.08	92,139,435	0.0122%	0.0247%	63.26%
853010	Electrical signalling, safety or traffic control equip for railways/tramways	34,712,868	0.0046%	0.0093%	
853080	Electrical signalling, safety or traffic control equipment, nos	24,012,064	0.0032%	0.0064%	
853090	Parts of electrical signalling, safety or traffic control equipment	33,414,503	0.0044%	0.0089%	
8531	Electric sound or visual signalling apparatus, o/t of No 85.12/85.30	215,075,783	0.0285%	0.0576%	27.56%
853110	Burglar or fire alarms and similar apparatus	51,342,773	0.0068%	0.0137%	
853120	Indicator panels incorp liquid crystal devices (LCD)/light-emitting diodes (LED)	71,404,745	0.0095%	0.0191%	
853180	Electric sound or visual signalling apparatus, nos	59,654,594	0.0079%	0.0160%	
853190	Parts of electric sound or visual signalling apparatus	32,673,671	0.0043%	0.0087%	
8532	Electrical capacitors, fixed, variable or adjustable (pre-set)	35,997,277	0.0048%	0.0096%	18.79%
853210	Fixed capacitors dsnd for use in 50/60 Hz circuits & reactive power>=0.5 kvar	7,157,330	0.0009%	0.0019%	
853221	Electrical capacitors, fixed, tantalum, nos	2,390,525	0.0003%	0.0006%	
853222	Electrical capacitors, fixed, aluminium electrolytic	3,506,333	0.0005%	0.0009%	

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853223	Electrical capacitors, fixed, ceramic dielectric, single layer, nos	1,668,338		0.0002%	0.0004%	
853224	Electrical capacitors, fixed, ceramic dielectric, multilayer, nos	9,650,668		0.0013%	0.0026%	
853225	Electrical capacitors, fixed, dielectric of paper or plastics	5,165,409		0.0007%	0.0014%	
853229	Electrical capacitors, fixed, nos	5,484,563		0.0007%	0.0015%	
853230	Electrical capacitors, variable or adjustable (pre-set)	523,143		0.0001%	0.0001%	
853290	Parts of electrical capacitors	450,968		0.0001%	0.0001%	
8533	Electrical resistors, incl rheostats & potentiometers, o/t heating resistors	47,965,323		0.0064%	0.0128%	33.32%
853310	Electrical resistors, fixed carbon, composition or film type	1,727,557		0.0002%	0.0005%	
853321	Electrical resistors fixed for a power handling capacity not exceeding 20 W	9,952,280		0.0013%	0.0027%	
853329	Electrical resistors, fixed, other than heating resistors, nos	9,958,388		0.0013%	0.0027%	
853331	Wirewound variable resistors, including rheostat and potentiometers <=20 W	2,397,942		0.0003%	0.0006%	
853339	Wirewound variable resistors, including rheostat and potentiometers, nos	841,235		0.0001%	0.0002%	
853340	Variable resistors, including rheostats and potentiometers, nos	21,291,277		0.0028%	0.0057%	
853390	Parts of electrical resistors, rheostats and potentiometers	1,796,644		0.0002%	0.0005%	
8534	Printed circuits	87,375,521		0.0116%	0.0234%	19.66%
8535	Electrical app for switching/protecting elec circuits/mak connections, > 1,000 V	323,164,984		0.0429%	0.0865%	58.62%
853510	Electrical fuses, for a voltage exceeding 1,000 volts	19,784,251		0.0026%	0.0053%	
853521	Automatic circuit breakers, for a voltage exceeding 1,000 volts but < 72.5 kV	37,130,942		0.0049%	0.0099%	
853529	Automatic circuit breakers, for a voltage exceeding 1,000 volts, nos	44,802,962		0.0059%	0.0120%	
853530	Isolating switches and make-and-break switches, voltage > 1,000 volts	69,763,368		0.0093%	0.0187%	
853540	Lightning arresters, voltage limiters and surge suppressors, > 1,000 V	35,242,895		0.0047%	0.0094%	
853590	Electrical apparatus for switching or protec elec circuits, > 1,000 volts, nos	116,440,566		0.0154%	0.0312%	
8536	Electrical app for switching (ex fuses, switches, etc) not exceeding 1000 volts	1,244,040,570		0.1650%	0.3329%	37.54%
853610	Electrical fuses, for a voltage not exceeding 1,000 volts	9,355,957		0.0012%	0.0025%	
853620	Automatic circuit breakers for a voltage not exceeding 1,000 volts	138,584,968		0.0184%	0.0371%	
853630	Electrical app for protecting electric circuits, for a voltage <=1,000 V, nos	49,674,100		0.0066%	0.0133%	
853641	Electrical relays for a voltage not exceeding 60 volts	31,868,150		0.0042%	0.0085%	
853649	Electrical relays for a voltage > 60 V but not exceeding 1,000 volts	50,129,149		0.0066%	0.0134%	
853650	Electrical switches for a voltage not exceeding 1,000 volts, nos	445,892,455		0.0591%	0.1193%	
853661	Electrical lamp-holders, for a voltage not exceeding 1,000 volts	584,401		0.0001%	0.0002%	
853669	Electrical plugs and sockets, for a voltage not exceeding 1,000 volts	214,186,216		0.0284%	0.0573%	
853670	Connectors for optical fibres, optical fibre bundles or cables	14,384,180		0.0019%	0.0038%	
853690	Electrical app for switching or protec elec circuits, not exceed 1,000 V, nos	289,380,994		0.0384%	0.0774%	
8537	Board, panels & other bases, equipped wtwo or more app of No 85.35 or 85.36	1,631,402,567		0.2163%	0.4366%	52.54%
853710	Boards, panels, including numerical control panels, for a voltage <=1,000 V	1,543,652,613		0.2047%	0.4131%	
853720	Boards, panels, including numerical control panels, for a voltage > 1,000 V	87,749,954		0.0116%	0.0235%	

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8538	Parts suitable for use solely or princ w the apparatus of No 85.35/85.36/85.37	338,944,190	0.0449%	0.0907%	41.77%
853810	Boards, panels, etc, for goods of No 85.37, not equipped with their app	65,560,310	0.0087%	0.0175%	
853890	Parts for use with the apparatus of Nos 85.35, 85.36 or 85.37, nos	273,383,880	0.0363%	0.0732%	
8539	Electric fi or dschg lamps, incl sealed beams & ultra-violet lamps; arc-lamps	61,323,157	0.0081%	0.0164%	11.07%
853910	Sealed beam lamp units, electrical	10,632,551	0.0014%	0.0028%	
853921	Filament lamps, electrical, tungsten halogen, o/t ultra-violet/infra-red lamps	5,941,523	0.0008%	0.0016%	
853922	Filament lamps,elec,power <= 200W,vltge > 100V,o/t ultra-violet/infra-red lamps	747,614	0.0001%	0.0002%	
853929	Filament lamps, electrical, o/t ultraviolet or infra-red lamps, nos	3,082,260	0.0004%	0.0008%	
853931	Fluorescent lamps, electrical, hot cathode, o/t ultra-violet lamps	2,978,032	0.0004%	0.0008%	
853932	Mercury/sodium vapour lamps & metal halide lamps, elec, o/t ultra-violet lamps	2,331,868	0.0003%	0.0006%	
853939	Discharge lamps, other than ultra-violet lamps, nos	651,490	0.0001%	0.0002%	
853941	Arc-lamps	871,018	0.0001%	0.0002%	
853949	Ultra-violet or infra-red lamps	21,667,746	0.0029%	0.0058%	
853951	Light-emitting diode (LED) modules, electric,o/t lamps	3,743,166	0.0005%	0.0010%	
853952	Light-emitting diode (LED) lamps, electric, o/t modules	7,176,529	0.0010%	0.0019%	
853990	Parts of electric filament or discharge lamps, UV or IR lamps and arc-lamps	1,499,360	0.0002%	0.0004%	
8540	Thermionic, cold cathode valves & tubes, e.g.,vac or gas filled, tv camera tubes	19,591,653	0.0026%	0.0052%	39.27%
854011	Cathode-ray television picture tubes, including video monitor tubes, colour	105,046	0.0000%	0.0000%	
854012	Cathode-ray television picture tubes, incl video monitor tubes, monochrome	22,481	0.0000%	0.0000%	
854020	Television camera tubes, image converter and other photocathode tubes	749,066	0.0001%	0.0002%	
854040	Data/graphic disp tubes,col,w phosphor dot screen pitch smaller than 0.4 mm	741,663	0.0001%	0.0002%	
854060	Cathode-ray tubes, nos	77,082	0.0000%	0.0000%	
854071	Microwave tubes, magnetrons	424,118	0.0001%	0.0001%	
854079	Microwave tubes, nos	13,235,076	0.0018%	0.0035%	
854081	Receiver or amplifier valves and tubes	711,409	0.0001%	0.0002%	
854089	Valve and tubes, nos	2,436,594	0.0003%	0.0007%	
854091	Parts of cathode-ray tubes	11,700	0.0000%	0.0000%	
854099	Parts of valve and tubes, nos	1,077,418	0.0001%	0.0003%	
8541	Diodes, tr & sim semicon devices; phtosens semicon dev,incl photovoltaic;LED;etc	108,851,424	0.0144%	0.0291%	89.85%
854110	Diodes, o/t photosensitive or light-emitting diodes (LED)	9,704,589	0.0013%	0.0026%	
854121	Transistors, o/t photosensitive, with a dissipation rate of less than 1 W	11,598,599	0.0015%	0.0031%	
854129	Transistors, other than photosensitive transistors, nos	15,436,758	0.0020%	0.0041%	
854130	Thyristors, diacs and triacs, other than photosensitive devices	1,270,884	0.0002%	0.0003%	
854141	Photosensitive semiconductor devices,of LED,w/n assembled in modules/into panels	18,413,580	0.0024%	0.0049%	
854142	Photosensitive semicon devices,of photovoltaic cells not assem in modules/panels	462,145	0.0001%	0.0001%	
854143	Photosensitive semicon devices,of photovoltaic cells assembled in modules/panels	5,919,110	0.0008%	0.0016%	
854149	Phtosens semicon dev,incl photovoltaic cells,LED,w/n assem in modules/panels,nos	19,974,772	0.0026%	0.0053%	
854151	Semiconductor devices, semiconductor-based transducers	4,752,845	0.0006%	0.0013%	
854159	Semiconductor devices, o/t semiconductor-based transducers, nos	8,818,966	0.0012%	0.0024%	

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854160	Mounted piezo-electric crystals	5,361,488		0.0007%	0.0014%	
854190	Parts of mounted piezo-electric crystals and semiconductor devices	7,137,688		0.0009%	0.0019%	
8542	Electronic integrated circuits and microassemblies	315,545,692		0.0418%	0.0844%	12.26%
854231	EIC procsr & cntlr,w/n combi w mem,convert,logic ctr,o ctr,ampli,clock,etc	203,841,050		0.0270%	0.0545%	
854232	Electronic integrated circuits, memories	19,205,167		0.0025%	0.0051%	
854233	Electronic integrated circuits, amplifiers	14,986,654		0.0020%	0.0040%	
854239	Electronic integrated circuits, incl hybrid and monolithic, nos	58,537,150		0.0078%	0.0157%	
854290	Parts of electronic integrated circuits and microassemblies	18,975,671		0.0025%	0.0051%	
8543	Electrical mach & app having individual functions, nos or incl in this Chapter	678,469,380		0.0900%	0.1816%	35.34%
854310	Particle accelerators	1,032,278		0.0001%	0.0003%	
854320	Signal generators	12,937,192		0.0017%	0.0035%	
854330	Machinos & apparatus for electroplating, electrolysis or electrophoresis	4,429,742		0.0006%	0.0012%	
854340	Electric fence energisers	455,513		0.0001%	0.0001%	
854370	Electrical machinos and apparatus, having individual functions, nos	604,015,622		0.0801%	0.1616%	
854390	Parts of electrical machinos & apparatus having individual functions, nos	55,599,033		0.0074%	0.0149%	
8544	Insulated wire/cable & o insul elec conductors w/n fitted w connectors	2,245,347,820		0.2977%	0.6009%	39.04%
854411	Winding wire, insulated, of copper, electric, including enamelled or anodized	90,433,354		0.0120%	0.0242%	
854419	Winding wire, insulated, o/t of copper, electric, including enamelled/anodized	26,635,543		0.0035%	0.0071%	
854420	Co-axial cable and other co-axial electric conductors	59,786,528		0.0079%	0.0160%	
854430	Ignition wiring sets & other wiring sets of a kind used in vehicles,aircraft,etc	439,598,160		0.0583%	0.1176%	
854442	Electric conductors, insulated, for a voltage <= 1,000 V, fitted with connectors	364,630,084		0.0484%	0.0976%	
854449	Electric conductors, for a voltage not exceeding 80 V, nos	700,016,068		0.0928%	0.1873%	
854460	Electric conductors, insulated, for a voltage exceeding 1,000 V, nos	317,572,676		0.0421%	0.0850%	
854470	Optical fibre cables, made up of individually sheathed fibres	246,675,407		0.0327%	0.0660%	
8545	Carbon electds/brushes/lamp carbons & o art of graphite or other carbon	56,880,322		0.0075%	0.0152%	7.68%
854511	Electrodes, of carbon or graphite, of a kind used for furnaces	30,909,237		0.0041%	0.0083%	
854519	Electrodes, of carbon or graphite, of a kind used for electrical purposes, nos	5,832,155		0.0008%	0.0016%	
854520	Brushes, of carbon or graphite, of a kind used for electrical purposes	17,395,300		0.0023%	0.0047%	
854590	Articles,of graphite/o carbon,w or w/o metal,kind used f electrical purposes,nos	2,743,630		0.0004%	0.0007%	
8546	Electrical insulators of any material	74,545,143		0.0099%	0.0199%	49.31%
854610	Insulators, electrical, of glass	420,413		0.0001%	0.0001%	
854620	Electrical insulators of ceramics	8,097,718		0.0011%	0.0022%	
854690	Electrical insulators, nos	66,027,012		0.0088%	0.0177%	
8547	Insulating fittings for elec mach, app or equip, o/t insulators of No 85.46	29,954,399		0.0040%	0.0080%	57.64%
854710	Insulating fittings of ceramics for elec machinos, appliances or equipment	4,091,171		0.0005%	0.0011%	
854720	Insulating fittings of plastics for elec machinos, appliances or equipment	11,670,529		0.0015%	0.0031%	

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854790	Insulating fittings for electrical mach appliances or equipment, nos	14,192,699	0.0019%	0.0038%	
8548	Electrical parts of mchy or app, not specified or incl elsewhere in this Ch	10,214,332	0.0014%	0.0027%	41.67%
8549	Electrical and electronic waste and scrap	194,921,468	0.0258%	0.0522%	86.10%
854911	Waste/s,elec & electro,of lead-acid accumulators; spent lead-acid accumulators	25,027,901	0.0033%	0.0067%	
854912	W/s,elec & electro,of primary cells,batt,etc containing lead, cadmium or mercury	90,317	0.0000%	0.0000%	
854913	W/s,elec & electro, prim cells,batt,etc,sort chem type & n cont lead,cad/mercury	206,346	0.0000%	0.0001%	
854914	W/s,elec & electro,of prim cells,batt,etc, unsorted and not cnt lead,cad/mercury	187,117	0.0000%	0.0001%	
854919	W/s,elec,electro,prim cells,batt,elec accum;spent prim cells,batt,elec accum,nos	69,920,548	0.0093%	0.0187%	
854929	Waste & scrap, elec & electro,recov of prec metal,o/t cont cad,mercury, lead/PCB	96,178,362	0.0128%	0.0257%	
854931	Waste and scrap,of o electrical & electronic asy comp,cont cad,mercury, lead/PCB	11,466	0.0000%	0.0000%	
854939	Waste & scrap, o electrical & electronic asy comp,o/t cont cad,mercury, lead/PCB	92,384	0.0000%	0.0000%	
854991	W/s,of elec & electro,prim cells, glass f CRT,etc,cont cad,mercury,lead/PCB, nos	5,136	0.0000%	0.0000%	
854999	W/s,elec & electro,prim cells, glass f CRT,etc,o/t cont cad,mercury,lead/PCB,nos	3,201,891	0.0004%	0.0009%	