

CODE	TITLE	IPCS	SCOPE NOTES	SEARCH TERMS	PREVIOUS CODE
V01-B01D5	Super-capacitor	(H01G-009) (V01-B01D,V01-B01X)	See T01-H01/T01-L01 codes for computer memory module and power supply systems, e.g. memory back-up; and for high power applications e.g. electric/hybrid vehicles, see X12-B, and X21-B codes.	Ultracapacitor, electrochemical double layer	
V02-A09	Binders and other additives for magnetic materials	(H01F-001/113, 117,28,37-375)	Includes binders/additives for both hard and soft materials . This code will be used in conjunction with the magnetic materials' codes.		
V02-E02A3	Linear actuator				
V02-E02A4	Rotary actuator			Rotary solenoid	
V02-G01E	Inductive sensor	(H01F-038/00)	Includes non-transformer type current/voltage sensors. See also S01-D codes.	Voltage-, current-sensor, inductive probe	
V02-H01C	For electromagnet				
V02-H01C1	For EM relay		See also V03-D06B.		
V02-H01C2	For EM valve		See also X25-L01A.		
V02-H01C3	For printer		See also T04-G codes.		
V02-H01C9	Electromagnet coil manufacture for other devices				
V02-H01X	Coil manufacture for other devices				
V02-H02D	Plasma processing				
V02-H03C	For electromagnet				
V02-H03C1	For EM relay		See also V03-D06B.		
V02-H03C2	For EM valve		See also X25-L01A.		
V02-H03C3	For printer		See also T04-G codes.		
V02-H03C9	For electromagnet core of other devices				
V02-H03E	For inductor				
V02-H03X	Core manufacture for other devices				

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V02-H06	Terminal manufacture	(H01F-041/00) (V02-H09)	Includes manufacture of terminals for all devices and is generally coded in conjunction with the relevant device code, e.g. V02-G01A for transformer terminals.		
V02-H07	Case manufacture	(H01F-041/00) (V02-H09)	Includes manufacture of casings for all devices and is generally coded in conjunction with the relevant device code, e.g. V02-G01A for transformer casing.		
V02-H08	Testing	(H01F-041/00) (V02-H09)	For all aspects of testing transformer, inductor, etc except magnetic heads, which are covered by V02-H02/H05 and T03-A04 codes.		
V03-B10	Modular construction	(H01H-003,- 009)			
V03-C01A1A	Membrane switches	(H01H-013/50- 66)			
V03-C10A	Nanoswitches	(B82)			
V03-D10A	Nanorelays	(B82)			
V03-U	Switches/relays characterised by applications				
V03-U01	Domestic				
V03-U02	Personal				
V03-U03	Vehicles				
V03-U04	Information equipment		Includes switches for computers, keyboards, printers, scanners, graph plotters and photocopiers.		
V03-U05	Telecommunication				
V03-U06	Machine tools				
V03-U07	Industrial machines				
V03-U08	Toys; games; sports				
V03-U09	Audio, video equipment				

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V03-U10	Medical				
V03-U11	Lighting				
V03-U12	Cameras		<p>NOTES:(1) Includes low power electronics and domestic mains type connectors. (2) High power connectors for power distribution are in X12-G. (3) Thick and thin film circuits and hybrid circuits are in U14-H, although aspects relevant to printed circuits are in V04-Q and V04-R. (4) For batteries search V04 and X16, and for telephony V04 and W01 together. (5) Indeterminate type connectors are in V04 and X12. (6) Direct connections used for 2-part connector terminations are in V04-A and the relevant connector e.g. IDC termination for a 3-pin mains plug is in V04-A03, V04-F, V04-M02 and V04-M07.</p>		
V04-G15	USB connectors	(H01R)	Universal serial bus		
V04-M15	Hot plug connectors	(H01R)			
V04-M20	Microconnectors	(H01R)			
V04-M30Q	Instrumentation				
V04-M30R	Machine tools				
V04-Q02A3A	Contactless cards				
V04-Q02A3B	Contact cards				
V04-Q02A3C	Hybrid/twin cards				
V04-Q06	Printed antenna				
V04-R06G1B	Flying-probes				
V04-R06G1C	Generic probes				
	[2002]				
V04-S10	Manufacture				
V04-S15	Materials				
V04-T01C1	Modular components				

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V04-T03B1	Using fans				
V04-T03B2	Using pumps/compressors				
V04-T03B3	Cryogenic cooling				
V04-T03C	Thermoelectric cooling				
V04-T03H	Heat pipes				
V04-T03J	Heating arrangements				
V04-T03K	Air filtering/cleaning				
V04-T03L	Dehumidifiers				
V04-T03P	Materials				
V04-T03Q	Manufacture				
V04-U15	Manufacture				
V04-U20	EMC testing				

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V04-X01E	Drying		<p>NOTES(1) All aspects of discharge tubes for lighting (including manufacture) are covered by X26 and not included in V05 unless of application to other tube types also. (2) Within V05, manufacture of all tube and device types is covered by V05-L codes only, codes for the device per se are not used unless that aspect is also claimed. (3) From 9201, new codes were introduced to represent tube types which can be used whether the whole tube or a component part is claimed. These codes can only be applied if the particular tube type is specified, thus they should be regarded as a means of limiting a search only, since the precise nature of a tube may be unspecified or unimportant in some cases of wide application. (4) In sections where separate codes for tubes details are not included, codes from the general section (V05-M) should be used in conjunction with a device code. (5) In general, circuitry is not included unless there is either no provision elsewhere, or the field of application is very broad. Codes for equipment using the particular tube should thus be considered.</p>		
V05-A01C2A	Discharge triggering electrodes	(H01J-017/12)	Covers electrodes specifically intended to initiate gas discharge.		
V05-A01C2C	Discharge maintaining electrodes	(H01J-017/12)	Covers electrodes specifically intended to maintain an existing gas discharge.	Holding electrode	

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V05-D01C3	Field Emission Displays	(H01J-031)	Includes displays with field emission cathodes. For novel details of field emission cathodes see V05-D05C5 codes. For novel emitter arrangements in matrix type field emission displays see also V05-D06A1E. Prior to 2002 field emission displays can be found in V05-D01C5 with V05-M03A to signify cathode type (if cathode is not novel) or in V05-D05C5 if cathode is novel.	Cold cathode, surface emission	
V05-L05D1A	Field emission display tubes	(H01J-009)			
V06-E06A	Nanotransducers	(H04R,B82)			
V06-K07A	Nanoresonators	(H03H,B82)			
V06-L01A3A	Multilayer				
V06-L01A3B	Rosen type				
V06-L03A	Nanosensors	(B82)			
V06-L10	Resonant sensors				
V06-M06D3	Laminated type				
V06-M06D4	Bimorph type				
V06-M06G1A	Comb motors				
V06-M06G1B	Wobble motors				
V06-M06G9	Nanomotors/nanoactuators	(B82)			
V06-M06Q	MHD generators				
V06-M08A1	Printed coils/windings				
V06-M09A	Connectors; terminal boxes				
V06-M10A	Microgears; microtransmission				
V06-M15	Materials				
V06-M15A	Conductive				
V06-M15B	Magnetic				
V06-M15C	Insulative				

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V06-N22A	Nanomotors/nanoactuators	(B82)			
V06-N35	Remote motor control				
V06-U04E	Telecommunication				
V06-U13	Cameras				
V06-U14	Optical switches				
V06-U15	Industrial machines/components		The codes in this class were introduced at the start of 1983 and used to backlog code all basic abstracts to Derwent week 8018. Coverage is restricted to components for coupling, guiding, or performing operations - e.g. multiplexing - on IR, visible, or UV radiation. Individual radiation sources and receivers per se are not included, and are coded in U12 and V08. See W02-C04 codes for optical communications systems in general.		
V07-F01A3C	Manufacturing equipment	(G02B-006)	Covers equipment for the manufacture of optical fibers. Equipment for preparing fibers goes in V07-G01, and for light guides/cables go in V07-H01.		
V07-F01A5S	Integrated optical waveguide sensors	(G02B-006/12)	Includes multilayered optical filters.	Fiber gratings, smart skin, smart structure	
V07-F01B1A	Dust-proof and watertight structures	(G02B-006/44)	Includes enclosures for protecting optical fiber connections from dust and water.	Dust-proofing, weather-proofing, environmental protection	
V07-G10E	Orthogonal intersection of parallel fiber optic threads	(G02B-006/28, G02B-027/10)	Includes intersection of parallel woven fiber optic threads, orthogonal to another fiber optic thread.	Fabric panel, display, energy beam, internal reflection, light generating pixels	

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V08-A01D1	Preparation of active material	(H01S-003/14) (V08-A01D)	Includes crystal growth and doping aspects. Does not include semiconductor laser formation (see U11/U12-A01B codes).		