

PCB Component and Electrical Drawing Codes

Collected Working Reference - Revised September 2, 2026

This document collects 140 codes encountered across PCB silkscreens, schematics, bills of materials, industrial electrical drawings, and legacy documentation. The list mixes common electronic reference designators, functional labels, and project- or region-specific abbreviations.

Important: this is not an industry standard and no entry should be treated as universally authoritative. The same code can have different meanings across companies, CAD libraries, countries, and equipment families. Confirm an uncertain mark against the exact board revision, schematic, BOM, assembly drawing, CAD library, and component manufacturer's documentation before ordering a part, applying power, or making a repair.

Reference routes: IPC-2612 covers electronic diagram documentation and naming conventions; it does not mandate one universal PCB abbreviation table. Certification marks and file numbers should be verified through the issuing organization's official database, such as UL Product iQ.

[IPC-2612 scope](#) [UL Product iQ](#)

No.	Code	Collected meaning (verify)
1	AAT	automatic power-on device
2	AC	alternating current
3	ANT	Antenna
4	BATT	Battery
5	BHBM	Temperature measurement sensor
6	BL	Liquid level sensor
7	BT1BK	Time measuring sensor
8	BV	speed changer
9	C	Capacitor
10	CN	Connector
11	D	Diode
12	DC	direct current
13	EUI	electromotive voltage current
14	F	frequency
15	FB	Ferrite Bead
16	FET	Field Effect Transistor
17	FF	Dropout fuse
18	FL	Filter
19	FR	thermal relay
20	FTF	Fast Fuse
21	FU	fuse
22	FV	Voltage limiting protection device
23	G	generator
24	GDT	Gas Discharge Tube
25	GND	Ground / Common

No.	Code	Collected meaning (verify)
26	HA	Acoustic signal
27	HB	blue light
28	HG	Green light
29	HL	Indicator light
30	HP	light plate
31	HR	Red light
32	HS	Optical signal
33	HW	White light
34	HY	Yellow light
35	IC	Integrated Circuit
36	J	Jumper / Connector
37	JK	Jack
38	JP	Jumper Pin
39	K	relay
40	KA	momentary relay
41	KD	differential relay
42	KF	flasher relay
43	KH	thermal relay
44	KI	impedance relay
45	KM	intermediate relay
46	KOF	export intermediate relay
47	KP	Polarization Relay
48	KR	Reed Relays
49	KS	signal relay
50	KT	time relay
51	KV	voltage relay
52	L	Inductor / Line
53	LED	Light Emitting Diode
54	M	Motor
55	MIC	Microphone
56	MOD	Module
57	MOV	Metal Oxide Varistor
58	NC	Not Connected
59	OSC	Oscillator
60	PA	Ammeter
61	PAR	Reactive ammeter
62	PF	Frequency table
63	PJ	Active energy meter
64	PJR	Reactive energy meter

No.	Code	Collected meaning (verify)
65	PM	Maximum Demand Meter (Load Monitor)
66	PPA	Phase Meter
67	PPF	Power Factor Meter
68	PR	Reactive power meter
69	PW	Active power meter
70	PQS	active and reactive apparent power
71	Q	circuit switching device
72	QF	circuit breaker
73	QS	isolation switch
74	R	Resistor
75	REL	Relay (Generic)
76	RT	Thermistor
77	RV	Varistor
78	SA	transfer switch
79	SB	push button switch
80	SBE	Panic button
81	SBP	Pressure switch
82	SBR	Reverse button
83	SBS	Stop button
84	SBT	Test button
85	SC	Contactor
86	SCR	Silicon Controlled Rectifier
87	SE	experiment button
88	SG	Signal lamp
89	SL	Level switch
90	SM	Humidity control switch
91	SP	Pressure control switch
92	SPK	Speaker
93	SQ	Limit switch
94	SQP	Proximity switch
95	SR	Reset button
96	SS	Speed control switch
97	ST	Temp control auxiliary switch
98	SV	Voltmeter changeover switch
99	SW	Automatic transfer switch
100	T	Transformer
101	TA	current transformer
102	TBP	Pressure transmitter

No.	Code	Collected meaning (verify)
103	TC	Thermocouple
104	TF	Temperature limiter
105	TG	Thermostat
106	TH	Heater
107	TM	Temperature transmitter
108	TP	Test Point
109	TR	Thermoresistance
110	TT	Temperature controller
111	TV	voltage transformer
112	U	Rectifier / Integrated Circuit
113	UB	Uninterruptible power supply
114	UC	Converter
115	UI	Inverter
116	UR	Thyristor rectifier
117	US	Soft starter
118	UT	Step-down transformer
119	V	Frequency converter
120	VC	Control circuit with power rectifier
121	VR	Variable Resistor / Potentiometer
122	W	Cable / Wire
123	WB	DC bus
124	WC	Control small busbar
125	WCL	Closing small busbar
126	WE	Emergency lighting branch line
127	WELM	Emergency Lighting Small Busbar
128	WEM	Emergency lighting mains
129	WF	Flash small busbar
130	WFS	Accident Sound Small Bus
131	WIB	Plug-in (feed) bus
132	WL	Lighting branch line
133	WLM	Lighting mains
134	WP	Power branch line
135	WPM	Power mains
136	WPS	Forecast audio small bus
137	WS	Signal small busbar
138	WT	trolley line
139	WV	Voltage small busbar
140	Y	Crystal Oscillator