

Common Schematic Symbols Used in Circuit Diagrams

RESISTORS (R#)

FIXED:

VARIABLE:

PHOTO:

ADJUSTABLE:

TAPPED:

THERMISTOR:

CAPACITORS (C#)

FIXED:

NON-POLARIZED:

SPLIT-STATOR:

ELECTROLYTIC:

VARIABLE:

FEED-THROUGH:

INDUCTORS (L#)

AIR-CORE:

IRON-CORE:

FERRITE-BEAD:

ADJUSTABLE:

OR:

PHASING:

IRON-RFC:

AIR-RFC:

TUBES (V#)

TUBE ELEMENTS:

- ANODE:
- GRID:
- CATHODE:
- DEFLECTION PLATES:
- HEATER OR FILAMENT:
- GAS FILLED:
- COLD CATHODE:

TRIODE:

PENTODE:

HEATED CATH.:

CRT:

TWIN TRIODE:

WIRING

TERMINAL:

CONDUCTORS JOINED:

SHIELDED WIRE OR COAXIAL CABLE:

LINE-BREAK:

ADDRESS OR DATA BUS:

MULTIPLE CONDUCTOR CABLE:

SWITCHES

TOGGLE:

SPST:

SPDT:

NORMALLY OPEN:

HELD CLOSED:

LIMIT SWITCH:

MOMENTARY:

THERMAL:

MULTI-POINT:

HELD OPEN:

NORMALLY CLOSED:

LAMPS (DS#)

INCANDESCENT:

NEON (AC):

7-Seg:

GROUND

CHASSIS:

EARTH:

A-ANALOG D-DIGITAL:

INTEGRATED CIRCUITS (U#, U#A, U#B)

GENERAL AMPLIFIER:

OP AMP:

OTHER:

RELAYS (K#)

SPST:

SPDT:

DPDT:

NC:

NO:

K#A:

K#B:

K#:

Mechanical linkage optional:

THERMAL:

DIODES (D#)

LED (DS#):

VOLTAGE VARIABLE CAPACITOR:

DIODE/RECTIFIER:

ZENER:

SCHOTTKY:

TUNNEL:

THYRISTOR (SCR):

BRIDGE RECTIFIER:

TRIAC:

TRANSFORMERS (T#)

AIR CORE:

WITH LINK:

ADJUSTABLE INDUCTANCE:

ADJUSTABLE COUPLING:

WITH FERRITE CORE:

ADJUSTABLE CORE:

MISCELLANEOUS

FUSE (F#):

HAND KEY:

ANTENNA:

QUARTZ CRYSTAL (Y#):

METER (M#):

* = V, mV, A, mA, μA

MOTOR:

ASSEMBLY OR MODULE (OTHER THAN IC):

PHONE JACKS (J#)

CONTACTS:

PHONO JACK:

MIC JACK:

PHONE PLUG:

MALE (P#):

FEMALE (J#):

MULTIPLE, MOVABLE:

MULTIPLE, FIXED:

TRANSISTORS (Q#)

NPN:

P-CHANNEL:

P-CHANNEL:

P-CHANNEL:

P-CHANNEL:

P-CHANNEL:

P-CHANNEL:

PNP:

N-CHANNEL:

N-CHANNEL:

N-CHANNEL:

N-CHANNEL:

N-CHANNEL:

N-CHANNEL:

BIPOLAR:

UJT:

JUNCTION FET:

SINGLE-GATE:

DUAL-GATE:

SINGLE-GATE:

DEPLETION MODE MOSFET:

ENHANCEMENT MODE MOSFET:

DARLINGTONS:

NPN:

PNP:

MOSFET With Protection Diode:

OPTO-ISOLATORS:

LOGIC (U#)

AND:

OR:

XOR:

NAND:

NOR:

INVERT:

SCHMITT:

OTHER:

BATTERIES (BT#)

SINGLE CELL:

MULTI CELL:

Photo Cell:

CONNECTORS (J#, P#)

COAXIAL CONNECTORS:

- FEMALE:
- MALE:
- FEMALE (J#):
- MALE (P#):

TERMINAL STRIP:

220 V MALE:

240 V FEMALE:

GROUND:

GROUND:

FEMALE:

MALE:

HOT 120 V:

NEUT:

HOT 120 V:

NEUT:

MALE CHASSIS-MOUNT:

GROUND:

GROUND: