











| Comment | Description | Designator | Footprint | LibRef | Quantity |
|--|---|--|--|---|----------|
| 0.1 µF±10%10V Ceramic Capacitor | Multilayer Ceramic Capacitor, 0.1 uF, 10 | O1 000 | SMD-CAP-0603- | CAP, 0.1uF; 10V; 0603; | |
| X7R0603 (1608 Metric) | V, ±10%, X7R, 0603 [1608 Metric] | C1, C23 | YAGEO | 9MD; 000603KRX7R6BB104 | |
| 10000 pF±10%16V | Multilayer Ceramic | | 04 ED 04 D 0000 | CAP, 0.01uF; 16V; | |
| Ceramic Capacitor X7R0603 (1608 | Capacitor, 0.01 uF, 16 V, ±10%, X7R, 0603 | 02,021 | SMD-CAP-0603- YAGEO | 0603; SMD; CC0603KRX7R7BB103 | |
| Metric) 1 μF±10%16V | [1608 Metric] 0603 1 uF 16 V±10 % | | | | |
| Ceramic Capacitor | Tolerance X7RSMT | C3, C22 | SMD-CAP-0603- | CAP, 1uF; 16V; 0603; SMD; | |
| X7R0603 (1608 Metric) | Multilayer Ceramic Capacitor | | YAGEO | 000603KRX7R7BB105 | |
| 10 µF±20%25V Ceramic Capacitor | Multilayer Ceramic Capacitor, 10 uF, 25 | | SMD-CAP-0603- | CAP, 10uF; 25V; SMD; | |
| X5R0603 (1608 | V, T¿1/220%, X5R, 0603 | C4, C5, C7 | YAGEO | 0603; 000603MRX5R8BB106 | |
| Metric) 0.1 µF±10%16V | [1608 Metric] 0603 0.1 uF 16 V±10 % | | | CAP: 0.1uF: 16V: 0603: | |
| Ceramic Capacitor X7R0603 (1608 | Tolerance X7RSMT Multilayer Geramic | O6, O8, C17 | SMD-CAP-0603- YAGBO | SMD; | |
| Metric) | Capacitor | | | 000603KRX7R7BB104 | |
| 0.033 µF±5%16V Ceramic Capacitor X7R0603 (1608 Metric) | Multilayer Ceramic Capacitors MLCC- SMD/SMT 16V 0.033uF X7R 0603 5% | C10, C11, C12, C13, C16, C18 | SMD-CAP-0603- KBMET | CAP; 0.033uF; 33nF; 0603; 16V; 00603C333J4REC7411 | |
| 22 pF±1%50V | Multilayer Geramic | | | | |
| Ceramic Capacitor COG, NP0 0603 (1608 Metric) | Capacitor, 22 pF, 50 V, T¿½ 1%, COG (NP0), 0603 [1608 Metric] | C14, C15 | SMD-CAP-0603- YAGEO | CAP, 22pF, 50V; SMD; CC0603FRNPO9BN220 | |
| | 225mcd-450mcd Colorless | | | | |
| | Transparent Lens - | | | | |
| 0603 GREEN | 40°C→85°C Positive Stick 520nm-535nm | D1, D2, D3, D4, D6, D6 | LED0603_GREEN | L0603_GREEN | |
| | Green 120° 70mW 2.4V-3V 0603 LED | | | | |
| | Indication - Discrete | | | | |
| Linear Voltage | ROHS Linear Voltage | | | | |
| Regulator ICPositive Fixed 1 Output 1A SOT | Regulator IC1 Output | ICI | SOT-223-3-DI | LDO; 3V3; 1A; 9MD; AZ11178H-3.3TRG1 | |
| 223-3 | 1A SOT-223 | | | a | |
| Single Phase Meter IC | Single Phase Multifunction | IC3 | SSOP-20-ADI | ADE7753ARSZ | |
| 20-S9OP | Metering IC 20-Pin SSOP Tube | | -conti | , SCI ISSNIGE | |
| HEADER; 15x2PIN; | | .P | HEADER-2.54-15x2- | HEADER; 15x2PIN; | |
| 2.54; HOR; USB:C (USB TYPEC) | USBConnector, 16 | | HOR-U3D | 254; HOR | |
| USB 2.0 Receptacle Connector 24 (16+8 | Contact(s), Female, | | TYPECHOR- | Type-C; USB; HOR | |
| Dummy) Position Surface Mount, Right | Right Angle, Surface Mount Terminal, | В | RECEPTACLE:24PIN- MOLEX | RECEPTACLE; 24PIN; 217179-0001 | |
| Angle; Through Hole | Locking, Receptacle | | | | |
| Bluetooth, WIFi 802.11b/g/n, | SMD mod, ESP32- | | | | |
| Bluetooth v4.2 +EDR | S3R8 with 3.3V, 8MB Octal PSRAM die | M1 | MODULEESP32-S3- | ESP32-S3-WROOM-1- | |
| Transceiver Module 2.4GHz - 2.5GHz POB | insid, 6MBQuad SPI | | WROOM-1-N16R8 | N16R8; SMD; | |
| Trace Surface Mount | flash, pcb ant | | | | |
| 802.15.4, Bluetooth, Cellular UWB, Zigbeet | | | | | |
| Transceiver Module | RFModules UMB | M2 | MODULE-DWM30005R | DWM3000TR13 | |
| 6.25GHz ~ 8.25GHz Integrated, Ceramic | XCVRModule | | | | |
| Patch Surface Mount 10 kOhms ±1%0.25W. | | | | | |
| 1/4W Chip Resistor | SMD Chip Resistor, 10 | | | | |
| 0603 (1608 Metric) Automotive AEC- | kOhm, ± 1%, 250 mW, | R1, R3, R4, R6, R7, R8, | SMD-RES-0603-SE | RES; 10K; 0603; SMD; | |
| Q200, Pulse | 0603 [1608 Metric], Thick Film, Anti-Surge | R11 | | ESR03EZPF1002 | |
| Withstanding Thick Film | , sango | | | | |
| 100 kOhms ±5% 0.25W, 1/4W Ohip | Res Thick Film 0603 | | | | |
| Resistor 0603 (1608 | 100K Ohm 5% | | or en nom o · · · · · | RES; 100K; 0603; SMD; | |
| Metric) Automotive AEC-Q200, Pulse | 0.25W(1/4W) ±200ppm/CPad SMD | R2 | SMD-RES-0603-SE | ESP03EZPJ104 | |
| Withstanding Thick | Automotive T/R | | | | |
| 0 Ohms Jumper Chip | Res Thick 0603 0 Ohm | | | | |
| Resistor 0603 (1608 Metric) Automotive | Jumper 1/10W 100Ppm/ C9md Rohs | R5, R28 | SMD-RES-0603-SE | RES; OR; 0603; SMID; RMCF0603ZT0R00 | |
| AEC-Q200 Thick Film 100 Ohms ±1%0.1W. | Compliant: Yes Res Thick Film 0603 | | | | |
| 1/10W Chip Resistor | 100 Ohm 1% | | | | |
| 0603 (1608 Metric) Automotive AEC- | 0.1W(1/10W) ±100ppm/CPad SMD | R9, R12, R13, R16, R17, R18, R20 | SMD-RES-0603-RS | RES; 100R; 0603; SMD; KTR03EZPF1000 | |
| Q200, High Voltage | T/R Automotive AEC- | | | | |
| Thick Film 1 kOhms ±1%0.29W, | Q200 | | | | |
| 1/4W Chip Resistor 0603 (1608 Metric) | SMD Chip Resistor, 1 kChm, ± 1%, 250 mW, | R10, R14, R19 R23 | | | |
| | IV(1hm + 1% 250 mW) | R24, R25, R26, R27. | SMD-RES-0603-SEI | RES; 1K; 0603; SMD; ESR03EZPF1001 | |
| Automotive AEC- | 0603 [1608 Metric], | | | | |
| Q200, Pulse Withstanding Thick | 0603 [1608 Metric], Thick Film, Anti-Surge | R29, R30 | | | |
| Q200, Pulse Withstanding Thick Film | Thick Film, Anti-Surge | | | | |
| Q200, Pulse Withstanding Thick Film 4.7 kOhms ±1% 0.1W, 1/10W Ohip Resistor | Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0603 4.7k | R29, R30 | O ID DED Asses DO | RES; 4.7K; 0603; SMD; | |
| Q200, Pulse Withstanding Thick Film 4.7 kChms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) | Res Anti-Sulfured Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0603 4.7k Ohm 1%1/10W ±100ppm/°CMolded | | SMD-RES-0603-RS | RES; 4.7K; 0603; SMD; SFR03EZPF4701 | |
| Q200, Pulse Withstanding Thick Film 4.7 kOhms ±1%0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film | Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0603 4.7k Ohm 1% 1/10W | R29, R30 | SMD-RES-0603-RS | | |
| Q200, Pulse Withstanding Thick Film 4.7 kOhms ±1% 0.1 W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film https://www.digikey.com/en/products/deta | Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0603 4.7k Ohm 1%1/10W ±100ppm/°CMolded Paper T/R Tactile Switch SPST- | R29, R30 | | SFR03EZPF4701 | |
| Q200, Pulse Withstanding Thick Film 4.7 kChms ±1%0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film https://www.digikey.c | Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0603 4.7k Ohm 1% 1/10W ±100ppm/°CMolded Paper T/R | R29, R30 | | | |
| O200, Pulse Wthstanding Thick Film 4.7kChms ±1%0.1W, 1/10WChip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film https://www.digikey.com/en/products/deta il/panasonic- electronic- components/EVQ- | Thick Film, Anti-Surge Res Anti-Sulfured Thick Film 0633 4.7k Ohm 1%1/10/W ±100ppm*CMolded Paper T/R Tactille Switch SPST- NO Sde Actuated | R29, R30 | SWHM2W- | SFR03EZPF4701 BUT; SW; SMD; EVQ- | |
| C200, Pulse Withstanding Thick Film 4.7 kChms ±1%0.1W, 1/1/0N/Ohip Resistor 0003 (1608 Metric) Anti-Sulfur Thick Film https://www.diglkey.com/en/products/deta li/panasonic- electronic- components/ENQ- P7L01R 4429453 | Description (Inc.) Finish Film, Anti-Surge Res Anti-Sulfured Thick Film 0633 4.7k Chm 1% 1/10W ±100ppm "CMolded Paper T/R Tactille Switch SPST- NOS de Actuated Surface Mount, Right Angle | R29, R30 | SWHM2W- | SFR03EZPF4701 BUT; SW; SMD; EVQ- | |
| C200, Pulse Withstanding Thick Film 4.7 kChms ±1%0.1W, 1/1/0WCbip Resistor 0803 (1698 Merit) Anti-Sulfur Thick Film https://www.dig/key.com/en/products/deta/li/panasonic- components/EAQ- P7L01F/4429453 Tactile Switch \$PST | DOSI (BOSINATIO), THICK FILM, AND SURGE Res Anti-Sulfured Thick Film, Anti-Sulfured Thick Film 0834.7k. Chm 19s. 1/10W ±100pm/"C Molded Paper T/R Tacille Switch SPST-NO 3 de Actuated Surface Mount, Right Angle Switch Tacille N.O. SPST Rectangular | R29, R30 | SWHbbW-1.1x3.5x2.9-PEC | SFR03EZPF4701 BUT; SW; SMD; EVC- P7L01P BUT; SW; SMD; | |
| C200, Pulse Withstanding Thick Film 4.7 kChms ±1%0.1W, 1/1/0N/Ohip Resistor 0003 (1608 Metric) Anti-Sulfur Thick Film https://www.diglkey.com/en/products/deta li/panasonic- electronic- components/ENQ- P7L01R 4429453 | DOSI (LOCINETIC), THICK FILM, ANII-Surge Res Anti-Sulfured Thick Film 06334.7k Chm 19s.1/10W ±100ppm/*CMolded Paper UR Tactile Switch S*ST- NOS de Actuated Surface Mount, Right Angle | R29, R30 R15, R21, R22 | 9W-HulxW- 1.1x3.5x2.9-PEC | STR03EZPF4701 BUT; SW; SMD; EVO- P7L01P | |
| C200, Pulse Withstanding Thick Film 4.7 K/hms ±1%0.1 W, 1/10/Whip Resistor 6033 (168 Merric) Anti-Sulfur Thick Film https://www.digkey.com/en/products/detail/panasonic-electronic- components/EAD- P7L01IR 4429453 Tactile Switch SPST- NO Top Actuated Surface Mount | Dobs (too Martie), books (too Martie) Res Arti-Sulfured Thick Film Anti-Surge Thick Film 0803 4.7k Oran 196-1/10W 1-100ppm"/Cholded Paper TIR Tacille Switch SPST- NOS die Actuated Surface Mount, Right Angle Switch Tacille N.O. SyST Rectangular Button JBand 0.05A 12/VDC1.77N SWDT/R | R29, R30 R15, R21, R22 SM1 SM3 | SWHbbW 1.1x3.5x2.9PEC SWHbbW 5.0x6.0x3.5C8K | SPR03EZPF4701 BUT; SW; SMD; EVO- P7L01P BUT; SW; SMD; P7S636SM/S0J9MTRLFS | |
| C200, Pulse Withstanding Thick Film 4.7 K/Onms ±1%0.0 TW, 1/10W Chip Resistor 0003 (1608 Metric) Anti-Sulfur Thick Film https://www.dig/key. om/en/products/deta il/pansaonic- electronic- components/ENQ- PPICHP 44/23453 Tracille Switch SPST- NO Top Actuated | DOSIG LOCKMENT, AND SURGE Res Anti-Sulfured Thick Film, Anti-Surge 1100ppm/*CMolded Paper T/R Tacille (Switch YST: NOS de Actuated Surface Mours, Right Angle Switch Tactile N.O. SYST Rectangular | R29, R30 R15, R21, R22 SW1 SW3 TP1, TP2, TP3, TP4, TP6, TP7, TP8, TP9, TP9, TP9, TP9, TP9, TP9, TP9, TP9 | SWHbbW-1.1x3.5x2.9-PEC | SFR03EZPF4701 BUT; SW; SMD; EVC- P7L01P BUT; SW; SMD; | |
| C200, Pulse Withstanding Thick Film 4.7 K/hms ±1%0.1 W, 1/10/Whip Resistor 6033 (168 Merric) Anti-Sulfur Thick Film https://www.digkey.com/en/products/detail/panasonic-electronic- components/EAD- P7L01IR 4429453 Tactile Switch SPST- NO Top Actuated Surface Mount | DOSI (Loo Intal II), Intick Film, And Surge Res Anti-Sulfured Thick Film (1933 4.7k Chm 195:1/104 100 ppm)" Child Idea Paper TiR Tacille Switch SPST-NOS de Actuated Surface Mount, Right Angle Switch Ecolor No. Set Set Switch Switch Switch Switch Switch Ecolor No. Set Switch | R29, R30 R15, R21, R22 SM1 SM3 | SWHbbW 1.1x3.5x2.9PEC SWHbbW 5.0x6.0x3.5C8K | SPR03EZPF4701 BUT; SW; SMD; EVO- P7L01P BUT; SW; SMD; P7S636SM/S0J9MTRLFS | |
| C200, Pulse Withstanding Thick Film 4.7 K/hms ±1%0.1 W, 1/10/Whip Resistor 6033 (168 Merric) Anti-Sulfur Thick Film https://www.digkey.com/en/products/detail/panasonic-electronic- components/EAD- P7L01IR 4429453 Tactile Switch SPST- NO Top Actuated Surface Mount | Dobs (too Martie), books (too Martie) Res Arti-Sulfured Thick Film Anti-Surge Thick Film 0803 4.7k Oran 196-1/10W 1-100ppm"/Cholded Paper TIR Tacille Switch SPST- NOS die Actuated Surface Mount, Right Angle Switch Tacille N.O. SyST Rectangular Button JBand 0.05A 12/VDC1.77N SWDT/R | R29, R90 R15, R21, R22 SW1 SW3 SW3 TP1, TP2, TP3, TP4, TP4, TP4, TP4, TP4, TP4, TP4, TP4 | SAVHALAW 1.1xd.5x2.9PEC SAVHALAW 5.0x6.0x3.5CBK | SPR03EZPF4701 BUT; SW; SMD; EVO- P7L01P BUT; SW; SMD; P7S636SM/S0J9MTRLFS | |