









| Bill of Materi | als | | USBDM-Kinet | tis | | |
|----------------------------|-------------------------|---|-------------|--|---|----------|
| Source Data From: Project: | | USBDM_Kinetis_MK22F.PrjPcb USBDM Kinetis MK22F.PrjPcb | | | | |
| | | | | | | |
| Variant: | | None | III CD | | | |
| variant. | | None | | | | |
| Creation Date: | 2/03/2017 | 10:38:08 PM | | | | |
| Print Date: | 02-Mar-17 | 10:38:16 PM | | | | |
| Pilit Date. | UZ-IVIAI - 17 | 10.36. 16 FW | | | | |
| Footprint | Comment | Farnell PN | Digikey | Designator | Description | Quantity |
| CCNP1608-0603 | 100nF | 1709957 | | C1, C4, C6, C8, C9, C10, C11, C12, C14, C15, C16 | Capacitor SMT 0603 | 11 |
| CCNP2012-0805 | 10uF/16V | 2497049 | | C2 | Capacitor SMT 0805 | 1 |
| CCNP1608-0603 | 4u7F/6V | 2496930 | | C3, C5, C7, C13 | Capacitor SMT 0603 | 4 |
| LED1608-0603-GREEN | LED Green | 1581242 | | D1 | LED 0603 Green (1.25mm x 1.4mm, 20 mA, 2.2 V, 572 nm) | 1 |
| LED1608-0603-RED | LED Red | 1581239 | | D2 | LED 0603 Red (1.25mm x 1.4mm, 20 mA, 2.1 V, 626 nm) | 1 |
| MOLEX - 47346-0001 | USB Micro-B Connector | 1568026 | | J1 | USB Micro-B (MOLEX - 47346-0001) | 1 |
| Header 1x3 (2mm) | Header 1x3 2mm | .000020 | | JP1 | Header, 1x3, 2mm | 1 |
| FB2012-0805 | Ferrite Bead | 1669733 | | L1, L2 | Ferrite Bead SMT 0805, TDK MPZ2012S102AT, 0.15OHM, 1.5A | 2 |
| BDM | BDM Connector | | | P1 | HCS BDM connector (2x3 0.1") | 1 |
| SWD-2x10 - reduced | SWD-2x10 (reduced pins) | 1865289 | | P2 | SWD Connector 2x10-Pin (reduced pins) | 1 |
| SWD-2x5 | SWD2X5 | 1865285 | | P3 | SWD Connector 2x5-Pin | 1 |
| CR1608-0603 | 1K | 2331727 | | R1, R20 | Resistor SMT 0603 | 2 |
| CR1608-0603 | 33R | 1632431 | | R2, R3 | Resistor SMT 0603 | 2 |
| CR1608-0603 | 10K | 1799366 | | R4, R11, R12, R17, R22, R23 | Resistor SMT 0603 | 6 |
| CR1608-0603 | 330R | 2502447 | | R5, R21 | Resistor SMT 0603 | 2 |
| CR1608-0603 | 100K | 9238727 | | R6, R9, R10, R15, R18 | Resistor SMT 0603 | 5 |
| CR1608-0603 | 47R | 1646283 | | R7, R8, R14, R16, R19 | Resistor SMT 0603 | 5 |
| CR1608-0603 | 0R | 2668260 | | R13 | Resistor SMT 0603 | 1 |
| SW SMT PB2-B3U-1000P-B | SW-PB-SMT-B3U-1000P-B | 1333654 | | S1 | Switch OMRON B3U series | 1 |
| SOT23-6-Power | MIC2005-0.5YM6-TR | 2509880 | | U1 | Power Switch | 1 |
| SC70 N | 74LVC1T45DCK | 2395603 | | U2, U7 | Dual voltage bidirection buffer | 2 |
| SOT23 | MCP1703T-3302E/CB | 2136813 | | U3 | 3V3 LDO regulator | 1 |
| SSOP8 N | 74LVC2T45DCT | 2444915 | | U4, U6 | Dual voltage bidirection buffer | 2 |
| TSQFP50P1200X1200-64L | MK22FN512VLH12 | 2434224 | | U5 | Arm Cortex M4F | 1 |
| SOT23-6 | 82402305 | 1825866 | | Z1 | Quintuple Unipolar Protection Device (5V) | 1 |
| | | | | | | 57 |
| Approved | | Notes | | | | |
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