

Sleep_Monitor_2020__V2_0

Reference	Quantity	Value	Footprint	Vendor	Vendor Number
BT1	1	CR1225	footprints:Keystone-3000-0-0-MFG		
BT2	1	Battery_Cell	footprints:BatteryHolder_Keystone_1042_1x18650_my	TME	KEYS1042
BZ1	1	SD1209T5-A1	footprints:TDK-SD1209-0-0-MFG	Farnell	3212606
C1 C22 C23 C27 C52	5	4u7	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder		
C14 C15 C17 C18 C20 C21 C24 C28 C29 C30 C31 C32 C33 C35	38	100n	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C25 C26	2	10p	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C43 C80 C87 C90	4	1n	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C5 C36 C47 C73 C75	5	1u	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C41 C44 C45 C46 C48 C53 C54 C55 C56 C57	10	10uF	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder		
C61 C71 C76 C79 C86	5	10u	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder		
C62 C63 C64 C65 C66	5	1uF	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C72	1	470p	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C2 C3 C4 C6 C7 C8 C9 C10 C11 C12 C13 C16 C19 C34 C58 C59	18	10n	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
C89	1	220u/10V	Capacitor_SMD:CP_Elec_6.3x7.7		
C92 C93	2	DNS	Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
D11 D15	2	BAT54CW	Package_TO_SOT_SMD:SOT-323_SC-70	Farnell	1081193
D12	1	BZX384-B15,115	Diode_SMD:D_SOD-323F	Digi-Key	1727-3640-2-ND
D13 D14 D17	3	HSME-C120	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	Farnell	1058360
D16 D27 D28	3	PMEG6010CEJ	Diode_SMD:D_SOD-323F		
D18	1	HSMC-C120	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	Farnell	1058357
D20 D21 D22	3	SJD12A20L01	Diode_SMD:D_SOD-123		
D23	1	BAT54J	Diode_SMD:D_SOD-323F		
D24 D25	2	LED_Small	LED_SMD:LED_0603_1608Metric		
D26	1	SMAJ12A	Diode_SMD:D_SMA		
D29 D30 D31 D32 D33 D34 D35 D36 D37	9	PESD5V0L1UA	Diode_SMD:D_SOD-323	Farnell	2069359
D3 D4 D6 D7	4	BAT54S	Package_TO_SOT_SMD:SOT-23	Farnell	9526510
D1 D2 D5 D8 D19	5	BAV99	Package_TO_SOT_SMD:SOT-23	Farnell	1902422
D9 D10	2	PDZ12B	Diode_SMD:D_SOD-323F		
F1	1	10A	Resistor_SMD:R_1206_3216Metric_Pad1.42x1.75mm_HandSolder	Farnell	2850029
F2	1	3A	Resistor_SMD:R_1206_3216Metric_Pad1.42x1.75mm_HandSolder	Farnell	2850032
F3	1	0.375A	Fuse:Fuse_1206_3216Metric_Pad1.42x1.75mm_HandSolder		
F4	1	1A	Fuse:Fuse_1206_3216Metric_Pad1.42x1.75mm_HandSolder	Farnell	1652159
FR1 FR2	2	100R/100MHz	Inductor_SMD:L_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
J1	1	WE 694106301002	footprints:BarrelJack_Wuerth_6941xx301002	Farnell	2472149
J2	1	SWD/UART	footprints:2x5pin-R1.27mm	Farnell	2856430
J3	1	USB_C_Receptacle	footprints:Wurth_USB_C_632723300011	Farnell	2984361
J4	1	Micro_SD_Card_Det	footprints:Hirose_DM3AT-SF-PEJM5		
J5	1	Conn_01x12	footprints:Wago_734-142_1x12_P3.50mm_Vertical		
JP1 JP2 JP3 JP4 JP5 JP6	6	Jumper_NO_Small	Jumper:SolderJumper-2_P1.3mm_Open_RoundedPad1.0x1.5mm		
L2	1	4u7/3.85A	footprints:Wuerth_Elektronik-74404064047-Manufacturer_Recommended	Farnell	2431534
L1 L3	2	DfE201612E-2R2M	footprints:L_0806_2016Metric_Pad1.15x1.40mm_HandSolder	Farnell	2776807
Q1	1	NTTFS5C670NL	Package_SO:Vishay_PowerPAK_1212-8_Single	Farnell	2563863
Q2	1	PBSS4350SS	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Farnell	3439919
Q3 Q5	2	BC847	Package_TO_SOT_SMD:SOT-23		
Q4	1	BC847BS	Package_TO_SOT_SMD:SOT-363_SC-70-6		

Sleep_Monitor_2020__V2_0

Q6 Q7 Q8 Q9	4	SI2312	Package_TO_SOT_SMD:SOT-23	Farnell	2396085
R1 R2 R13 R14 R19 R22 R83 R84 R85 R86 R87 R90 R91 R93 R94	17	10k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R10	1	10R	Resistor_SMD:R_1206_3216Metric_Pad1.42x1.75mm_HandSolder		
R101	1	12k1	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R109 R110	2	56R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R9 R11 R15 R21	4	270k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R12	1	10m	Resistor_SMD:R_0612_1632Metric_Pad1.18x3.40mm_HandSolder	Farnell	3223610
R138	1	18k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R141	1	0R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R16	1	1k	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder		
R17	1	165k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R18	1	330k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R20	1	100k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R24 R35 R47 R55 R63 R92 R126 R127 R128 R132 R155 R156	12	100R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R26 R39	2	270R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R28 R103 R104 R105 R106	5	47R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R27 R30	2	10R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R29 R31 R32 R34 R37 R48 R49 R50 R51 R59 R62 R64 R82 R100	28	47k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R36 R54 R122 R123 R124 R125 R140 R145 R146 R147 R148 R149	17	DNS	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R3 R4 R23 R25 R33 R38 R78 R88 R89 R113 R120 R135 R136 R137	17	1k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R40 R45 R67 R68 R69 R70	6	47k	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder		
R41 R46	2	100R	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder		
R42 R43	2	4k7	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R44 R53 R99 R100 R111 R112	6	330R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R52	1	200R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R56	1	5k6	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R57	1	30k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R58	1	22R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R60	1	8k2	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R65	1	1K	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R66	1	1k5	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder		
R5 R7 R61	3	22k	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R71 R74	2	270k	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder		
R75	1	470	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R76	1	100R	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder		
R77 R79	2	2k2	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R6 R8	2	3k3	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R80 R81	2	4R7	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
R96 R97 R98	3	33R	Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder		
RA1 RA2 RA3	3	1k	Resistor_SMD:R_Array_Concave_4x0603		
SW1	1	PTS645Vx58-2LFS	Button_Switch_THT:SW_Tactile_SPST_Angled_PTS645Vx58-2LFS	Farnell	2320088
T1 T3 T4	3	NX2301P	Package_TO_SOT_SMD:SOT-23		
T2	1	SI2333DDS-T1-GE3	Package_TO_SOT_SMD:SOT-23	Farnell	2283650
TH1 R72 R73	3	10k	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	Farnell	2473596
TP1 TP2 TP3	3	TestPoint	TestPoint:TestPoint_Pad_D1.0mm		
U10	1	25LCxxx	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm		

Sleep_Monitor_2020__V2_0

U11	1	SHT21	footprints:Sensirion-SHT21-Manufacturer_Recommended	Farnell	1855468
U12	1	TSL2561T	footprints:AMS-TSL2561T-MFG	Digikey	TSL2561-TCT-ND
U13	1	LSM6DS3	Package_LGA:LGA-14_3x2.5mm_P0.5mm_LayoutBorder3x4y	Farnell	2762756
U14	1	LPS22HHTR	footprints:STMicroelectronics-HLGA-10L-DM00386636-0-1-MFG	Farnell	2980908
U15	1	MP34DT05TR-A	footprints:STMicroelectronics-HCLGA-DM00231908-0-3-MFG	Farnell	2851942
U16	1	BME680	footprints:Bosch_Tools-BME680-Recommended_Land_Pattern_	Mouser	262-BME680
U17	1	TPS63001	Package_SON:Texas_DRC0010J_ThermalVias	Farnell	3008242
U18	1	BQ25616	Package_DFN_QFN:QFN-24-1EP_4x4mm_P0.5mm_EP2.7x2.6mm	Mouser	595-BQ25616RTWT
U19	1	TPS63002	Package_SON:Texas_DRC0010J_ThermalVias	Farnell	2782646
U1 U2 U30	3	SN74LVC1G14DBV	Package_TO_SOT_SMD:SOT-23-5	Farnell	3120611
U21	1	USBDF01W5	Package_TO_SOT_SMD:SOT-353_SC-70-5	Farnell	2341665
U22	1	74AHCT1G32	Package_TO_SOT_SMD:SOT-23-5	Farnell	1085248
U23	1	STUSB4500QTR	Package_DFN_QFN:QFN-24-1EP_4x4mm_P0.5mm_EP2.7x2.7mm	Farnell	2980889
U24	1	RN4871	footprints:Microchip_RN4871_my	Farnell	2920845
U25	1	LAN8742A-CZ-TR	Package_DFN_QFN:QFN-24-1EP_4x4mm_P0.5mm_EP2.6x2.6mm		
U26	1	TJA1042T-3	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm		
U27	1	WE 7499010121A	footprints:RJ45_Wuerth_7499010121A_Horizontal_my	Farnell	1636379
U28	1	EMIF06-MSD02N16	footprints:STMicroelectronics-EMIF06-MSD02N16-MFG	Digikey	497-8751-2-ND
U29	1	ILI9488	footprints:3.5_INCH_TFT_DISPLAY		
U3	1	LM74610QDGKTQ1	Package_SO:VSSOP-8_3.0x3.0mm_P0.65mm	Farnell	3008482
U31	1	MCP23S08T-E_ML	footprints:Microchip-MCP23S08T-E_ML-Level_A	Farnell	3491053RL
U32	1	74HCT126	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	Farnell	1013962
U33	1	MCP6002-xSN	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Farnell	1840886
U4 U5	2	STL15DN4F5	footprints:PowerFLAT		
U6	1	INA138	Package_TO_SOT_SMD:SOT-23-5	Farnell	3050398
U7 U8 U20	3	MCP6001R	Package_TO_SOT_SMD:SOT-23-5	Farnell	8540829
U9	1	STM32F746VETx	Package_QFP:LQFP-100_14x14mm_P0.5mm		
X1	1	ASFL1-25.000MHZ-EC-T	Oscillator:Oscillator_SMD_Abracon_ASE-4Pin_3.2x2.5mm_HandSoldering	Farnell	2849498
Y1	1	CSTCE8M00G15L99-R0	footprints:Crystal_Murata3Pin		
Y2	1	32.768 kHz	Crystal:Crystal_SMD_3215-2Pin_3.2x1.5mm		