

Designator	Comment	Description	Quantity	Footprint
C1, C2, C4, C6	100nF 50V	CAP 100nF 50V -20% to +80% 0603 (1608 Metric) Thickness 1mm SMD	4	CAPC0603(1608)100_M
C3	4.7uF	CAP 4.7uF 0603	1	CAPC1608X87X35NL15T15
C5	10uF	Chip Capacitor, 10 uF, +/- 10%, 10 V, 55 to 85 degC, 0603 (1608 Metric), RoHS, Tape and Reel	1	CAPC1608X90X20LL10
C7	2.2uF 10V	CAP CER 2.2uF 10V 0603	1	CAPC1608X90X35ML10T15
C8	10nF 50V	Chip Capacitor, 10 nF, +/- 10%, 50 V, 55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	1	CAPC1608X90X40ML10T20
C9	1uF 10V	CAP CER 1uF 10V 0603	1	CAPC1608X90X35ML15T15
C10, C11, C12, C13, C14, C15, C16, C17, C18	C1608X5R1A106K080 AC	Chip Capacitor, 10 uF, +/- 10%, 10 V, 55 to 85 degC, 0603 (1608 Metric), RoHS, Tape and Reel	9	CAPC1608X90X20LL10
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	LP T67F-P1R2-35-1-20-R18-Z	SMD LED	10	LP T67F-P1R2-35-1-20-R18-Z
J1	ASP-134488-01	FMC HPC Connector	1	*SAMTEC_ASP-134488-01_ASP-134488-01(PRIMARY)
J2	NHD-C0216CZ-FSW-FBW-3V3	Character LCD Display Module Transflective 5 x 8 Dots FSTN - Film Super-Twisted Nematic LED - White Serial 41.40mm x 24.30mm x 4.00mm	1	*LCD_NHD-C0216CZ-FSW-FBW-3V3_NHD-C0216CZ-FSW-FBW-3V3(PRIMARY)
J3, J4, J5, J6	181-015-213R561	15 Position D-Sub, High Density Receptacle, Female Sockets Connector	4	*NORCOMP_181-015-213R561
J7	61303221021	THT Angled Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 32 pins	1	61303221021
J8	M2018EA2A13	SWITCH TOGGLE SPDT 6A 125V	1	M2018EA2A13
P1	TSW-103-07-L-S	0.025" SQ Post Header, Through-hole, Vertical, -55 to 125 degC, 2.54 mm Pitch, 3-Pin, Male, RoHS	1	SMTC-TSW-103-07-X-S

P2, P3, P5, P6, P8	TSW-102-07-S-S	Male Header, Pitch 2.54 mm, 1 x 2 Position, Height 8.38 mm, Tail Length 2.54 mm, -55 to 125 degC, RoHS, Bulk	5	SMTC-TSW-102-07-S-S
P4	TSW-104-08-G-S	0.025" SQ Post Header, Through-hole, Vertical, -55 to 125 degC, 2.54 mm Pitch, 4-Pin, Male, RoHS	1	SMTC-TSW-104-08-X-S
P7	TSW-105-07-G-D	Post Terminal Strip Assembly, Pitch 2.54 mm, 2 x 5 Position, Height 8.58 mm, Tail Length 2.54 mm, -55 to 125 degC, RoHS, Bulk	1	SMTC-TSW-105-07-G-D_V
P9	TSW-106-07-L-S	0.025" SQ Post Header, Through-hole, Vertical, -55 to 125 degC, 2.54 mm Pitch, 6-Pin, Male, RoHS	1	SMTC-TSW-106-07-X-S
R1	200k	200k Ohm 0603 SMD Resistor	1	RESC1608X55X30LL15 T15
R2, R3, R47, R48	1k	1k Ohm 0603 SMD Resistor	4	RESC1608X55X30LL20 T20
R4	4.7k	4.7k Ohm 0603 SMD Resistor	1	RESC1608X55X30LL15 T15
R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R45, R46, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58	10k	10k Ohm 0603 SMD Resistor	50	J1-0603
S1, S2, S3, S4, S5, S6, S7, S8, S9, S10	EG1218	Slide Switch SPDT Through Hole	10	*EG1218_EG1218(PRI MARY)

S11	430181038816	Tactile Switch SPST-NO Top Actuated Surface Mount	1	*430181038816
U1	BME280	Humidity Temperature Sensor 0 ~ 100% RH I <sup>2</sup> C, SPI ±3% 1s Surface Mount	1	*PSON65P250X250X100-8N
U2	MAX30102EFD+	Oximeter/Heart Rate Sensor I <sup>2</sup> C Output	1	MAX30201
U3	PCA9306DCUR	Dual Bi-Directional I2C-Bus and SMBus Voltage Level-Translator, 0 to 5.5 V, -40 to 85 degC, 8-pin US8 (DCU), Green (RoHS & no Sb/Br)	1	DCU0008A_M
U4	LP2985-18DBVR	Single Output Low Noise LDO, 150 mA, Fixed 1.8 V Output, 1.5% Tolerance, 2.2 to 16 V Input, Low IQ, 5-Pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br), Tape and Reel	1	DBV0005A_M
U5	LIS3LV02DLTR	ACCELEROMETER 2-6G I2C/SPI 16LGA	1	LGA-16_4P4X7P5X1
U6	AD7490BRUZ	16-Channel, 1 MSPS, 12-Bit ADC with Sequencer in 28-Lead TSSOP	1	*SOP65P640X120-28N
U7, U8, U9, U10, U11, U12, U13, U14, U15, U16	BC817-25-7-F	NPN Transistor	10	*SOT23
U17	NCP1117LPST50T3G	Linear Voltage Regulator IC 1 Output 1A SOT-223	1	SOT230P700X180-4N