

Filename: SAT0010 Rev A Bill Of Materials.xlsx
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SAT0010A

Designator	Quantity	Description	Manufacturer	PartNumber	DNI
IPC6	1	Printed Circuit Board	Any	SAT0010	
C1, C15, C36	3	CAP, CERM, 1uF, 10V, +10%, X5R, 0402	MuRata	GRM155R61A105KE15D	
C2, C3, C4, C5, C7, C30	6	CAP, CERM, 0.1uF, 10V, +10%, X7R, 0402	MuRata	GRM155R71A104KA01D	
C6	1	CAP, CERM, 220pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H221JA01D	
C8	1	CAP, CERM, 2.2uF, 6.3V, +20%, X5R, 0402	MuRata	GRM155R60J225ME15D	
C9, C10, C13	3	CAP CER 1PF 50V NP0	Murata	GRM1555C1H1R0CA01D	
C11, C12	2	CAP, CERM, 18pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H180JA01D	
C14, C16	2	CAP, CERM, 15pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H150JA01D	
C17, C18	2	CAP, CERM, 12pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H120JA01D	
C19	1	CAP, CERM, 1000pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H102JA01D	
C24	1	CAP, CERM, 0.1uF, 16V, +10%, X7R, 0402	MuRata	GRM155R71C104KA88D	
C25, C28	2	CAP, CERM, 0.022uF, 16V, +10%, X7R, 0402	MuRata	GRM155R71C223KA01D	
C27	1	CAP, CERM, 56pF, 50V, +5%, COG/NP0, 0402	MuRata	GRM1555C1H560JA01D	
C29	1	CAP, CERM, 0.01uF, 6.3V, +10%, X7R, 0402	MuRata	GRM155R70J103KA01D	
C32	1	CAP, CERM, 0.01uF, 6.3V, +/-10%, X7R, 0402	MuRata	GRM155R70J103KA01D	
D1	1	LED, Blue, SMD	Rohm	SMLP12BC7TT86	
FB1	1	0.25A Ferrite Bead, 1000 ohm @ 100MHz, SMD	MuRata	BLM15HG102SN1D	
FID1, FID2, FID3, FID4, FID5, FID6	6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	
J1	1	Header, 2x5 pin 50 mil spacing	Samtec	FTSH-105-01-L-DV	
J2, J3, J4	3	Socket, Single Cage Jack, TH	Wearnes Cambion Ltd	450-3326-01-03-00	
L1	1	Inductor, Multilayer, Ferrite, 1nH, 0.3A, 0.07 ohm, SMD	MuRata	LQG15HS1N0S02D	
L2	1	Inductor, Multilayer, Ferrite, 5.1nH, 0.3A, 0.2 ohm, SMD	MuRata	LQG15HH5N1S02D	
L3, L4	2	Inductor, Multilayer, Ferrite, 2nH, 0.3A, 0.1 ohm, SMD	MuRata	LQG15HS2N0S02D	
R1, R2, R4, R5, R6, R8, R9, R13, R14, R18, R22	11	RES, 0 ohm, 5%, 0.063W, 0402	Panasonic	ERJ-2GE0R00X	
R10	1	RES, 2.74k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04022K74FKE D	
R11	1	RES, 56.2k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040256K2FKE D	
R12	1	RES, 274 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402274RFKE D	
R19, R20	2	RES, 10.0k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040210K0FKE D	
U1	1	2.4-GHz Bluetooth low energy and Proprietary System-on-Chip, RHA0040H	Texas Instruments	CC2541RHA	
U4	1	Precision Micropower Low Dropout Voltage Reference, 5-pin SOT-23, Pb-Free	National Semiconductor	LM4120AIM5-2.5/NOPB	
U5	1	Configurable AFE Potentiostat for Low-Power Chemical Sensing	National Semiconductor	LMP91000SDE	
Y1	1	CRYSTAL, 32.768KHZ, 9PF, SMD	Abrakon Corporation	ABS07-32.768KHZ-9-T	
Y2	1	Crystal, 32MHz, 10pF, SMD	Epson	Q22FA1280009200	
C26	0	CAP, CERM, 0.1uF, 16V, +10%, X7R, 0402	MuRata	GRM155R71C104KA88D	DNI
C31	0	CAP, CERM, 1uF, 10V, +10%, X5R, 0402	MuRata	GRM155R61A105KE15D	DNI
J5, J7	0	Header, 50mil, 2x1 TH	Major League Electronics	TBSTC-501-D-200-22-G-300-LF	DNI
R3, R7, R21, R43	0	RES, 0 ohm, 5%, 0.063W, 0402	Panasonic	ERJ-2GE0R00X	DNI
R15	0	RES, 1.00Meg ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021M00FKE D	DNI

Designator	Quantity	Description	Manufacturer	PartNumber	DNI
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Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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