

TIDA-01470

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC6	1		Printed Circuit Board		TIDA-01470	Any	-	-
C1, C2, C3, C4, C5, C6, C7, C17, C19, C21	10	0.1uF	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C104KA01D	MuRata		
C8, C9, C10, C11, C12, C13, C14, C15, C16, C18	10	10uF	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	0805	GRM21BR71A106KE51K	MuRata		
C20, C22	2	1uF	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C105KA12D	MuRata		
C23, C24	2	18pF	CAP, CERM, 18 pF, 50 V, +/- 5%, COG/NP0, 0603	0603	GRM1885C1H180JA01D	MuRata		
D1	1	Green	LED, Green, SMD	LED_0805	LTST-C171GKT	Lite-On		
D2	1	Blue	LED, Blue, SMD	Blue LED	SMLP12BC7TT86	Rohm		
H1, H2, H3, H4	4		MACHINE SCREW PAN PHILLIPS M3 5mm	Screw M3 Phillips head	MPMS 003 0005 PH	B&F Fastener Supply		
H5, H6, H7, H8	4		Standoff, Hex,25mm Length, M3, Aluminum	Standoff M3	24438	Keystone		
H9	1		CBL012 Cable Assembly	CBL012	CBL012	Used in BOM report	-	-
J1	1		Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin	PEC04DAAN	Sullins Connector Solutions		
J2, J4, J6	3		Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator	PBC02SAAN	Sullins Connector Solutions		
J3	1		Receptacle, 100mil, 8x2, Gold, R/A, TH	Header, 8x2, 2.54mm, R/A	PPPC082LJBN-RC	Sullins Connector Solutions		
J5	1		Header, 100mil, 10x2, Gold, TH	10x2 Header	TSW-110-07-G-D	Samtec		
MIC1, MIC2, MIC3, MIC4	4		Wide Bandwidth, Low Noise, Precision Top Port SiSonic Microphone, SMD	3.5x2.65mm	SPH1642HT5H-1	Knowles Acoustics		
Q1	1	40 V	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23	MMBT2222A	Fairchild Semiconductor		
R1, R2, R3, R4, R6, R7, R8, R9, R12, R13, R14, R15, R16, R25, R26, R27, R28, R30, R31, R32, R33	21	49.9	RES, 49.9, 1%, 0.063 W, 0402	0402	RC0402FR-0749R9L	Yageo America		
R5	1	10.0k	RES, 10.0 k, 1%, 0.1 W, 0603	0603	ERJ-3EKF1002V	Panasonic		
R10, R11, R34, R35, R36, R37	6	2.21k	RES, 2.21 k, 1%, 0.063 W, 0402	0402	CRCW04022K21FKED	Vishay-Dale		
R17, R19, R20, R21, R22, R23	6	0	RES, 0, 5%, 0.1 W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale		
R18	1	360	RES, 360, 5%, 0.063 W, 0402	0402	CRCW0402360RJNED	Vishay-Dale		
R24	1	100	RES, 100, 1%, 0.1 W, 0402	0402	ERJ-2RKF1000X	Panasonic		
R29	1	2.15k	RES, 2.15 k, 1%, 0.063 W, 0402	0402	CRCW04022K15FKED	Vishay-Dale		
SH1, SH2	2	1x2	Shunt, 100mil, Gold plated, Black	Shunt	SNT-100-BK-G	Samtec	969102-0000-DA	3M
U1	1		Universal Microphone to 2VRMS Analog input, 24-Bit, 192 kHz Stereo Front-End, DBT0030A	DBT0030A	PCM1864DBTR	Texas Instruments	PCM1864DBT	Texas Instruments
U2, U4, U6	3		Single Bus Buffer Gate With 3-State Output, DCK0005A	DCK0005A	SN74LVC1G125DCKR	Texas Instruments	SN74LVC1G125DCKT	Texas Instruments
U3, U5, U7	3		Single Bus Buffer Gate With 3-State Output, DCK0005A	DCK0005A	SN74LVC1G126DCKR	Texas Instruments	SN74LVC1G126DCKT	Texas Instruments
Y1	1		Crystal, 24.576MHz, 18 pF, TH	11.5x5mm	9B-24.576MEEJ-B	TXC Corporation		
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30	0		Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		

Notes:

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

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