

**TIDA-01589 REV E2 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C15	3	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22 $\mu$ F, 16 V,+/- 10%, X5R, 0805	0805
C3, C5, C7	3	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 $\mu$ F, 10 V,+/- 20%, X7R, 0603	0603
C4, C6, C8	3	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 $\mu$ F, 6.3 V,+/- 10%, X7R, 0402	0402
C9, C10, C12, C13	4	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 $\mu$ F, 10 V,+/- 10%, X7R, 0603	0603
C11, C14	2	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 $\mu$ F, 10 V,+/- 10%, X7R, 0603	0603
D1, D2	2	Red	LTST-C191KRKT	Lite-On	LED, Red, SMD	LED_0603
D3, D4, D5	3	Blue	LTST-C191TBKT	Lite-On	LED, Red, SMD	LED_0603
J1	1		FTSH-110-01-L-DV-K	Samtec	Header (Shrouded), 1.27mm, 10x2, Tin, SMT	Header (Shrouded), 1.27mm, 10x2, SMT
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1, Q2	2	50 V	DDC114YU-7-F	Diodes Incorporated	Transistor, Dual NPN, 50 V, 0.1 A, SOT-363	SOT-363
R1, R2, R6, R9	4	4.75k	CRCW04024K75FKED	Vishay-Dale	RES, 4.75 k, 1%, 0.063 W, 0402	0402
R3, R4, R5	3	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R7	1	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
R8, R11	2	2.21k	CRCW04022K21FKED	Vishay-Dale	RES, 2.21 k, 1%, 0.063 W, 0402	0402
R10, R13	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R14	1	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, 0402	0402
U1	1		TLV320ADC3101IRGER	Texas Instruments	92dB SNR Low-Power Stereo ADC with Digital Mic Support and miniDSP, RGE0024F (VQFN-24)	RGE0024F
U2, U3	2		ICS-40618	InvenSense	High Dynamic Range Microphone with Differential Output and Low Power, SMT	3.5x2.65mm
R12	0	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R15	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402