

TIDA00743 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB1	1		TIDA00743	Any	Printed Circuit Board	
C1, C2, C4, C6, C8	5	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	1210
C3, C5, C7, C9, C22, C41, C42, C46, C48, C50, C58, C59, C60, C61, C71	15	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
C10, C12, C17, C25, C31, C35, C37, C39	8	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
C11, C13, C18, C26, C32, C36, C38, C40, C62, C63, C64, C65	12	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, C0G/NP0, 0402	0402
C14, C15, C16, C19, C20, C21, C23, C24, C27, C28, C29, C30, C33, C34	14	1uF	C1608X7R1E105K080AB	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C43, C66	2	2200pF	C1005X7R1H222K	TDK	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
C44, C47, C52, C55, C56, C57, C67	7	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	0805
C49, C51	2	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 µF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C53, C54	2	20pF	GRM1555C1H200JA01D	MuRata	CAP, CERM, 20 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
D1	1	Super Red	150060SS75000	Würth Elektronik	LED, Super Red, SMD	LED_0603
D2	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J4	1		851-43-006-20-001000	Mill-Max	Receptacle, 50mil, 6x1, R/A, TH	Receptacle, 6x1, 50mil pitch, R/A
J6	1		PRPC017DBAN-M71RC	Sullins Connector Solutions	Header, 2.54mm, 17x2, Gold, R/A, TH	Header, 2.54mm, 17x2, R/A, TH
L1, L2, L3, L4, L5, L6, L7, L8	8	3.3uH	FDS0420-H-3R3M	Toko	Inductor, Shielded, Powdered Iron, 3.3 µH, 3.4 A, 0.059 ohm, SMD	4.2x4.2mm
L25	1	1000 ohm	BLM15HG102SN1D	MuRata	Ferrite Bead, 1000 ohm @ 100 MHz, 0.25 A, 0402	0402
R1, R3, R24, R28, R30, R32, R34, R40	8	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R6, R16, R17	3	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, 0402	0402
R7, R8, R15, R27	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R12, R13	2	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R21	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
R29, R31, R33, R35	4	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R36, R37, R38, R39	4	100k	CRCW0402100FKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
S1	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
U1	1		TAS6424QDKQRQ1	Texas Instruments	Four-Channel Digital Input Automotive Digital Amplifier, DKQ0056A	DKQ0056A

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U2	1		CDCS504TPWRQ1	Texas Instruments	Clock Buffer/Clock Multiplier, PW0008A (TSSOP-8)	PW0008A
U3	1		MSP430G2332QPW2REP	Texas Instruments	MIXED SIGNAL MICROCONTROLLER, PW0020A	PW0020A
U4	1		PCM1865QDBTRQ1	Texas Instruments	110 dB 4ch Audio ADCs With Universal Front End, DBT0030A	DBT0030A
U5	1		TPS7B6733QPWPRQ1	Texas Instruments	Automotive 450-mA High-Voltage Ultra-Low IQ Low-Dropout Regulator, PWP0020D (TSSOP-20)	PWP0020D
Y1	1		ABM10-24.576MHZ-E20-T	Abracon Corporation	Crystal, 24.576MHz, 10pF, SMD	2.5x0.5x2.0mm
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R5	0	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R9, R10, R14, R18, R20, R22	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R26	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402

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