

TIDA-020032 BLE+CAN Auto-Addressing REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1uF	GRM155R6YA105ME11D	MuRata	CAP, CERM, 1 uF, 35 V, +/- 20%, X5R, 0402	0402
C2	1	4700pF	GCM188R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C3	1	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1206	1206
C4	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
C5	1	0.1uF	06035C104KAZ2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C6, C7	2	4.7pF	GJM1555C1H4R7BB01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 2%, C0G/NP0, 0402	0402
C8	1	0.33uF	C0603C334K4RACTU	Kemet	CAP, CERM, 0.33 uF, 16 V, +/- 10%, X7R, 0603	0603
C9	1	10uF	CL21B106K0QNNNE	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	0805
C10, C11, C12, C13, C14, C16, C17	7	0.1uF	CL05B104KP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
C15, C18	2	22uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	0603
C19	1	6.8pF	GRM1555C1H6R8CA01D	MuRata	CAP, CERM, 6.8 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C20, C21, C23, C26, C27	5	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C22, C25, C29	3	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C28	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
D1	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D2	1	39V	SM6T39CA	STMicroelectronics	Diode, TVS, Bi, 39 V, SMB	SMB
D3	1	Green	SML-P12PTT86	Rohm	LED, Green, SMD	LED, 1x.2x.6mm
D4	1	Blue	SMLP12BC7TT86	Rohm	LED, Blue, SMD	Blue LED
D5	1	Red	SML-P12VTT86	Rohm	LED, Red, SMD	LED, 1x.2x.6mm
J1	1		1778599	Phoenix Contact	TERM BLOCK HDR 6POS VERT 2.5MM	HDR6
J2	1		PEC06SAAN	Sullins Connector Solutions	Header, 100mil, 6x1, Tin, TH	TH, 6-Leads, Body 608x100mil, Pitch 100mil
J3	1		FTSH-105-01-F-DV-K	Samtec	Header (Shrouded), 1.27mm, 5x2, Gold, SMT	Header(Shrouded), 1.27mm, 5x2, SMT
L1	1	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
L2	1	6.8uH	MLZ2012M6R8HT000	Taiyo Yuden	Inductor, Multilayer, Ferrite, 6.8 uH, 0.35 A, 0.52 ohm, SMD	0805
L3, L6	2	2.4nH	LQG15HS2N4S02D	MuRata	Inductor, Multilayer, Air Core, 2.4 nH, 0.3 A, 0.15 ohm, SMD	0402 polarized
L4, L5	2	2nH	LQG15HS2N0S02D	MuRata	Inductor, Multilayer, Air Core, 2 nH, 0.3 A, 0.1 ohm, SMD	0402 polarized
Q1	1	50V	BSS138W-7-F	Diodes Inc.	MOSFET, N-CH, 50 V, 0.2 A, SOT-323	SOT-323
R1, R2	2	60.4	CRCW120660R4FKEA	Vishay-Dale	RES, 60.4, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R3, R13, R14	3	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4	1	220	CRCW0402220RJNED	Vishay-Dale	RES, 220, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5	1	130	CRCW0402130RJNED	Vishay-Dale	RES, 130, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	430	CRCW0402430RJNED	Vishay-Dale	RES, 430, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7, R8, R9	3	10.2k	CRCW040210K2FKED	Vishay-Dale	RES, 10.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10	1	1.62Meg	CRCW04021M62FKED	Vishay-Dale	RES, 1.62 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	1	402k	CRCW0402402KFKED	Vishay-Dale	RES, 402 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12	1	100k	ERJ-2GEJ104X	Panasonic	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
U1	1		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, LDO Regulator w/ Foldback Current Limit, DBV0005A (SOT-23-5)	DBV0005A
U2	1		TCAN4550RGYRQ1	Texas Instruments	CAN-FD Controller with Integrated Transceiver, RGY0020A (VQFN-20)	RGY0020A

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U3	1		CC2642R1TWFRTCRQ1	Texas Instruments	SimpleLink(TM) Bluetooth(R) 5 low energy Wireless MCU, RGZ0048A (VQFN-48)	RGZ0048A
U4	1		SKYA21001	Skyworks Solutions	20 MHz to 3.0 GHz SPDT Switch, SOT-363	SOT-363
Y1	1		CX2520DB40000D0GPSC1	Kyocera	Crystal, 40 MHz, 8 pF, SMD	2.5x2mm
Y2	1		ECS-480-8-33B-CWN-TR	Epson	Crystal, 48 MHz, 8 pF, SMD	s, Body 2.65x3.35mm, l
Y3	1		ST3215SB32768C0HSZA1	Kyocera	Crystal, 32.768 KHz, 20 ppm, SMD	3.2x1.5mm
C24	0	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402

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