

Bill of Materials

TI DESIGNS

TIDA-00886

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	1	!PCB		Printed Circuit Board	Any	TIDA-00886	
2	1	C1	1uF	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, 1206	MuRata	GRM319R71C105KAA3	1206
3	1	C1LFA	390pF	CAP, CERM, 390pF, 50V, +/-5%, C0G/NP0, 0603	AVX	06035A391JAT2A	0603
4	13	C2, C3, C4, C6, C7, C14, C16, C19, C21, C22, C23, C29, C31	0.1uF	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	AVX	0603YC104JAT2A	0603
5	1	C2LFA	4700pF	CAP, CERM, 4700pF, 100V, +/-5%, X7R, 0603	AVX	06031C472JAT2A	0603
6	2	C5, C5s	100pF	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0,	TDK	CGA3E2NP01H101J080	0603
7	2	C12, C13	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	Kemet	C0603C101J5GACTU	0603
8	1	C15	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	Kemet	C0603C225K8PACTU	0603
9	2	C17, C18	1000pF	CAP, CERM, 1000pF, 100V, +/-5%, X7R, 0603	AVX	06031C102JAT2A	0603
10	5	C20, C24, C25, C26, C33	1uF	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, 0603	MuRata	GRM188R71C105KA12D	0603
11	1	C27	0.01uF	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H103KA01D	0603
12	3	C28, C30, C32	10uF	CAP, CERM, 10 μ F, 25 V, +/- 20%, X5R, 0603	MuRata	GRM188R61E106MA73	0603
13	1	Cfb	10pF	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	Johanson Technology	500R07S100JV4T	0402
14	1	Cin	10uF	CAP, CERM, 10 μ F, 10 V, +/- 10%, X5R, 0805	MuRata	GRM21BR61A106KE19L	0805
15	2	Cout1, Cout2	10uF	CAP, CERM, 10 μ F, 6.3 V, +/- 20%, X5R, 0805	TDK	C2012X5R0J106M	0805
16	1	Css	1000pF	CAP, CERM, 1000 pF, 10 V, +/- 10%, X5R, 0402	MuRata	GRM155R61A102KA01D	0402
17	1	D1	Green	LED, Green, SMD	Lumex	SML-LX2832GC-TR	2.8x1.9x3.2mm
18	5	Fin, OSCin, RFoutRx, RFoutTx, Vin		Connector, End launch SMA, 50 ohm, SMT	Emerson Network Pow	142-0701-851	SMA End Launch
19	1	FSK		Header, 100mil, 4x2, Gold, SMT	Molex	0015910080	Header, 100mil, 4x2, SMT
20	1	L3	1.5uH	Inductor, Shielded, Powdered Iron, 1.5 μ H, 2.1 A, 0.095 ohm, SMD	Toko	1286AS-H-1R5M	2.0x1.2x1.6mm
21	1	LFB	0.6 ohm @ 100 MHz	Ferrite Bead, 600 mOhm @ 100MHz, 1.3 A, 0603	MuRata	BLM18KG601SN1D	603
22	2	R1, R30	10	RES, 10 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310R0JNEA	0603

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23	1	R2LFA	680	RES, 680 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603680RJNEA	0603
24	19	R3, R8, R9, R10, R11, R13,	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0603
25	1	R12	330	RES, 330 ohm, 5%, 0.1W, 0603	Yageo America	RC0603JR-07330RL	0603
26	4	R15, R17, R18, R20	330	RES, 330 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07330RL	0603
27	5	R16, R19, R23, R24, R25	18	RES, 18 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060318R0JNEA	0603
28	1	R36	41.2k	RES, 41.2 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060341K2FKEA	0603
29	1	R37	13k	RES, 13k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060313K0JNEA	0603
30	1	R40c	0	RES, 0, 5%, 0.125 W, 0805	Vishay-Dale	CRCW08050000Z0EA	0805
31	5	R42, R44, R48, R50, R55	10k	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	0603
32	4	R43, R45, R47, R54	12k	RES, 12k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060312K0JNEA	0603
33	4	R57, R58, R59, R60	33.0	RES, 33.0, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060333R0FKEA	0603
34	1	Rfbb	180k	RES, 180 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-184-B-T5	0603
35	1	Rfbt	583k	RES, 583 k, 0.1%, 0.1 W, 0603	Yageo America	RT0603BRD07583KL	0603
36	1	Rpg	1.00Meg	RES, 1.00 M, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031M00FKEA	0603
37	4	S1, S2, S3, S4		HEX STANDOFF SPACER, 9.53 mm	Richco Plastics	TCBS-6-01	7.9x9.5 mm
38	1	U1		Low Power Synthesizer with FSK Modulation, NJK0036A	Texas Instruments	LMX2571NJKR	NJK0036A
39	1	U3		Ultra Low Noise, 150mA Linear Regulator for RF/Analog Circuits Requires No Bypass Capacitor, 6-pin LLP, Pb-Free	Texas Instruments	LP5900SD-3.3/NOPB	SDB06A
40	1	U4		Ultra Low Noise, 800 mA Linear Voltage Regulator for RF/Analog Circuits, DNT0012B	Texas Instruments	LP38798SD-ADJ/NOPB	DNT0012B
41	1	U5		0.75-O DUAL SPST ANALOG SWITCH WITH 1.8-V COMPATIBLE INPUT LOGIC, DCU0008A	Texas Instruments	TS5A21366DCUR	DCU0008A
42	1	U6		Single Inductor Buck-Boost with 1A Switches and Adjustable Soft Start, RMW0012A	Texas Instruments	TPS63050RMW	RMW0012A
43	1	uWire		Header (shrouded), 100mil, 5x2, Gold plated, SMD	FCI	52601-S10-8LF	SMT Header
44	1	Vcc5V_TB		Terminal Block, 10.76x17x11 mm, 2POS, 26-12AWG, TH	Weidmuller	1592820000	2x1 Terminal Block
45	1	Y1		Oscillator, 20MHz, 3.3 V, SMD	Connor-Winfield	CWX813-020.0M	7x1.3x5mm
46	0	C1LFB	0.47uF	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C474K4RACTU	0603
47	0	C2ALFB, C2BLFB, C2LFB	4.7uF	CAP, CERM, 4.7uF, 16V, +/-10%, X5R, 0603	MuRata	GRM188R61C475KAAJ	0603
48	0	C3LFB, C4LFB	0.039uF	CAP, CERM, 0.039uF, 100V, +/-10%, X7R, 0603	Kemet	C0603C393K1RACTU	0603
49	0	C8, C9	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	Kemet	C0603C101J5GACTU	0603
50	0	C10, C11	1000pF	CAP, CERM, 1000pF, 100V, +/-5%, X7R, 0603	AVX	06031C102JAT2A	0603
51	0	C34	0.1uF	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	AVX	0603YC104JAT2A	0603
52	0	ExtFSKin, OSCin*, Vcc5V		Connector, End launch SMA, 50 ohm, SMT	Emerson Network Pow	142-0701-851	SMA End Launch
53	0	L1, L2	1uH	Inductor, Ferrite, 1uH, 0.7A, 0.15 ohm, SMD	MuRata	LQM18PN1R0MFH	0603

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54	0	R2, R5, R6, R7, R31, R34, R38, R39b, R56	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0603
55	0	R2LFB, R3LFB, R4LFB	10	RES, 10 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310R0JNEA	0603
56	0	R4	51.0	RES, 51.0 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0751RL	0603
57	0	R24b	68	RES, 68 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060368R0JNEA	0603
58	0	R40d	0	RES, 0, 5%, 0.125 W, 0805	Vishay-Dale	CRCW08050000Z0EA	0805
59	0	R49	10k	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	0603
60	0	R51	12k	RES, 12k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060312K0JNEA	0603
61	0	R61, R62	1.0k	RES, 1.0k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06031K00JNEA	0603
62	0	U2		VCO, 1800-2200MHz, SMD	Crystek Corporation	CVCO55BE-1800-2200	CVCO55BE
63	0	Y1x		Crystal, 10.000MHz, 10pF, SMD	TXC Corporation	7B-10.000MEEQ-T	5x0.9x3.2mm

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