

Variant: 001  
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TID #: TIDA-010274

TIDA-010274 REV A Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC81	1		TIDA-010274	Any	Printed Circuit Board	
2	C1, C5, C24, C31	4	33uF	KTS250B36M55N0T00	Chemi-Con	CAP, CERM, 33 uF, 25 V, +/- 20%, X7R, 2220	2220
3	C2, C6, C7, C25, C32, C95, C97, C99, C100, C102	10	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0603	0603
4	C3, C4, C8, C9, C13, C26, C27, C30, C33, C34, C36, C38, C39, C40	14	0.1uF	0603C5104KA22A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C10, C11, C12, C15, C17, C18, C20, C21, C22, C28, C29, C35, C41, C42	14	1uF	CL21B105KBFNFE	Samsung	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
6	C14, C16, C19, C37	4	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
7	C23	1	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
8	C43	1	3.9nF	C0402C-362KGRALCAUTO	Kemet	350pF ±10% 50V Ceramic Capacitor X7R 0402 (1005 Metric)	0402
9	C44, C46, C47, C49, C54, C55, C58, C60, C62, C63, C64, C65, C66, C67, C68, C69, C73, C74, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89	32	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
10	C45	1	47pF	CGA2B2NP01H470J050BA	TDK	CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 0, 0402	0402
11	C48	1	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, COG/NP0, 0402	0402
12	C50	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	0402
13	C51	1	680nF	CL10B684K08NFNC	Samsung	Cap Ceramic 680nF 16V X7R ±10% Pad SMD 0603 ±125°C T/R	0603
14	C52, C56, C57, C59, C61, C70	6	1.8pF	GJM1555C1H1R8B801D	MuRata	CAP, CERM, 1.8 pF, 50 V, +/- 6%, COG/NP0, 0402	0402
15	C53	1	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
16	C71	1	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
17	C72	1	10uF	C0805C106K9PACTU	Kemet	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
18	C94, C96	2	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
19	C105	1	0.056uF	GRM188R71H563KA93D	MuRata	CAP, CERM, 0.056 uF, 50 V, +/- 10%, X7R, 0603	0603
20	C106	1	1500pF	GRM1885C1H152JA01J	MuRata	CAP, CERM, 1500 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
21	C107	1	300pF	GRM1885C2A301JA01D	MuRata	CAP, CERM, 300 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
22	C108	1	1800pF	GRM1885C1H182JA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
23	D1, D2	2	Green	LTST-C191TGKT	Lite-On	LED, Green, SMD	LED 0603
24	H1, H2, H3, H7	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
25	H4, H5, H6, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
26	J1, J2	2		HTSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, TH
27	J3, J4, J5, J6, J8, J9, J10, J13, J14	9		132134-15	Amphenol Connex	CONN SMA JACK STR 50 OHM SMD	CONN_SMA_JACK
28	J7	1		TSW-106-07-T-S	Samtec	Header, 100mil, 6x1, Tin, TH	6x1 Header
29	J11, J12	2		SL 11 112 02G	Fischer Elektronik	Header, 2.54mm, 2x1, Gold, TH	TH 2-Leads, Body 2.5x5.08mm, Pitch 2.54mm
30	J31	1			Samtec	40 Position Connector Differential Pair Array, Male Surface Mount Gold	HDR40
31	L1, L2, L7, L11	4	120 ohm	BLM31PG121SN1L	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3.5 A, 1206	1206
32	L3, L4, L5, L6, L8, L9, L10, L12, L13, L14, L15, L16, L17	13	120 ohm	BLM185G121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
33	L18, L19	2	18nH	LOG15HS18NJ02D	MuRata	Inductor, Multilayer, Air Core, 18 nH, 0.3 A, 0.36 ohm, SMD	0402 polarized
34	LBL1	1		TH1-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
35	R3	1	620	ERA2AEB621X	Panasonic	RES, 620, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R6, R7, R21, R22, R24, R25, R33, R36, R37, R38, R39, R41, R42, R43, R44, R46, R48, R49	18	120	CRCW0402120RPFKEDC	Vishay Dale	Res Thick Film 0402 120 Ohm 1% 0.063W(1/16W) ±100ppm°C Pad SMD T/R	0402
37	R8	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
38	R11	1	39k	CRCW040239K0JNED	Vishay-Dale	RES, 39 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
39	R13, R15, R27, R28	4	100	CRCW0402100RPFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
40	R20, R23, R29, R60, R63	5	49.9	TNPW040249R9BEED	Vishay-Dale	RES, 49.9, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
41	R32, R40	2	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
42	R34, R35, R62, R66	4	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
43	R45, R47	2	750	CRCW0603750RPFKEA	Vishay-Dale	RES, 750, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
44	R52, R53, R59, R61	4	50	FC0402E50R0BST1	Vishay-Dale	RES, 50, 0.1%, 0.05 W, 0402	0402
45	R56	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	0402
46	R71	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
47	R72	1	270	RC0603JR-07270RL	Yageo	RES, 270, 5%, 0.1 W, 0603	0603
48	R73	1	120	CRCW0603120RJNEA	Vishay-Dale	RES, 120, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
49	RECAL_EN1, SYNC, Vtune_TP1	3		5007	Keystone	Test Point, Compact, White, TH	White Compact Testpoint
50	SH-J1	1		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
51	T1, T2	2		NCR2-123+	Minicircuits	RF Transformer, 50 Ohm, 3W, SMT	2.01x2.49mm
52	TP1, TP2	2		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
53	U1	1		LMK04832SFAPSEP	Texas Instruments	Ultra low-noise JESD204B compliant clock jitter cleaner with dual loop	TOFFP4_PowerPAD
54	U2	1		LMX2694-SEP	Texas Instruments	15-GHz Wideband PLLatinum™ RF Synthesizer With Phase Synchronization, RT00048A (PVGPN-64)	RT00048A
55	Y1	1		CVHD-950-100.000	Crystek Corporation	VCOXO, 100 MHz, 3.3V, SMD	CVHD-950-4
56	Y2	1		ECS-TX032-S3-33-100-BN-TR	ECS	Oscillator TCXO 10MHz ±1ppm (Tol) ±4.6ppm (Stability) 10pF Clipped Sinewave 3.3V 4-Pin CSMD T/R	SMT_OSC_3MM2_2M M5
57	C75, C90, C91, C92	0	0.1uF	C1005X7R1E104M050BB	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 20%, X7R, 0402	0402
58	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
59	R1, R4	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402