

# Assembly Bill of Materials

# Texas Instruments

Project Name:	TIDA-010224_BOM
Build Quantity:	1

Item	Designator	Description	PartNumber	Manufacturer	Quantity	Required
1	IPCB1	Printed Circuit Board- Encoder Board	XXX###	Any	1	1
2	3.3V_PA, VBAT	PC Test Point, SMT	RCU-0C	TE Connectivity	2	2
3	C3, C4, C5, C6, C8, C12, C19, C20, C22, C29, C30, C40, C41, C71, C103, C126, C130, C131, C134	CAP CER 0.1UF 16V 10% X7R 0402		Murata Electronics North America	19	19
4	C7, C127	CAP, CERM, 100 uF, 16 V, +/- 20%, X5R, 1210	C1210C107M4PAC7800	Kemet	2	2
5	C9, C34, C37, C38, C109	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	GRM188Z71C475KE21D	MuRata	5	5
6	C10, C11	CAP, CERM, 0.033 uF, 16 V, +/- 10%, X7R, 0402	GRM155R71C333KA01D	MuRata	2	2
7	C13, C14, C15, C18, C21, C24, C25, C26, C27, C33, C49, C52, C56, C59, C60, C61, C62, C66, C102, C117, C128, C129	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	GCM188R71C105MA64D	MuRata	22	22
8	C16, C23	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	885012205037	Wurth Elektronik	2	2
9	C17, C35, C36, C42, C44	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	GRM188Z71C225KE43	MuRata	5	5
10	C28	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	C1005C0G1H330J050BA	TDK	1	1
11	C31, C43, C45, C46, C58, C133	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	CL21B106KOQNNNE	Samsung Electro-Mechanics	6	6
12	C39, C47, C48, C50, C51, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C88, C90, C91, C92, C94, C96, C97, C98, C99, C100, C101, C105, C106, C107, C108	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0201	GRM033Z71C104KE14D	MuRata	33	33
13	C53, C54	8.2pF ±0.1pF 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	GRM1555C1H8R2BA01D	Murata Electronics North America	2	2
14	C55	CAP, CERM, 10 pF, 50 V, +/- 1%, C0G/NP0, 0402	GRM1555C1H100FA01D	MuRata	1	1
15	C63, C110, C121	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7S, 0603	C1608X7S1A475K080AC	TDK	3	3
16	C64	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	GRM21BR61E106KA73L	MuRata	1	1
17	C69, C114, C122	CAP, CERM, 120 pF, 50 V, +/- 5%, C0G/NP0, 0402	GRM1555C1H121JA01D	MuRata	3	3
18	C70	CAP, CERM, 22 uF, 16 V, +/- 20%, X5R, 0603	CL10A226M07JZNC	Samsung	1	1
19	C73	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	C1608X5R1A226M080AC	TDK	1	1
20	C93	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	GRM188R60J106ME47D	MuRata	1	1
21	C95	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0603	GRM188R60J226MEA0D	MuRata	1	1
22	C104	CAP, CERM, 1 uF, 6.3 V, +/- 20%, X7R, 0402	GRM155R70J105MA12D	MuRata	1	1
23	C112	CAP, CERM, 10 uF, 4 V, +/- 20%, X5R, 0603	GRM188R60G106ME47D	MuRata	1	1
24	C116	CAP, CERM, 10 uF, 4 V, +/- 20%, X5R, 0402	GRM155R60G106ME44D	MuRata	1	1
25	C119	CAP, CERM, 22 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	CGA6P1X7R1C226M250AC	TDK	1	1
26	C132	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	885012005055	Wurth Elektronik	1	1
27	CN1	Terminal Block, 2x1, 2.54mm, TH	282834-2	TE Connectivity	1	1
28	CN2	9 (8 + 1) Position Card Connector Secure Digital - microSD™ Surface Mount, Right Angle Gold	693071010811	Wurth Electronics	1	1
29	CN3	Plug, SMT, Vertical, 1.25mm, 1x2	53398-0271	Molex	1	1
30	CN4, CN7	Plug, 0.4 mm, 20x2, Gold, SMT	FX12B-40P-0.4SV	Hirose Electric Co. Ltd.	2	2
31	CN5	Connector, Receptacle, Micro-USB Type B, Top Mount SMT	ZX62R-B-5P(30)	Hirose Electric Co. Ltd.	1	1
32	CN6	Camera Video Processor	OA7000	Omnivision	1	1
33	CN8	Header, 2.54mm, 1x2, Tin, Black, TH	PEC01DAAN	Sullins Connector Solutions	1	1
34	CN9	Header, 50mil, 4x1, Gold, TH	GRPB041VWVN-RC	Sullins Connector Solutions	1	1
35	D1	LED, Blue, SMD	150060BS75000	Wurth Elektronik	1	1
36	D2	LED, Red, SMD	150060RS75000	Wurth Elektronik	1	1
37	D3	LED, Yellow, SMD	150060YS75000	Wurth Elektronik	1	1
38	D4	LED, Green, SMD	150060GS75000	Wurth Elektronik	1	1
39	D5, D6	1-channel 30 kV ESD protection diode with low capacitance (< 1pF) in 0402 package, DPY0002A (X1SON-2)	ESD321DPYR	Texas Instruments	2	2
40	D8	Diode, Schottky, 40 V, 2 A, AEC-Q101, SMAF	FSV240AF	Fairchild Semiconductor	1	1
41	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB12	120 Ohms @ 100MHz 1 Power Line Ferrite Bead 0603 (1608 Metric) 3A 30mOhm	BLM18KG121TN1D	Murata	12	12
42	FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3	3
43	H1, H2, H3, H4, H5, H6	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	NY PMS 440 0025 PH	B&F Fastener Supply	6	6

44	H7, H8, H9, H10, H11, H12	Standoff, Hex, 0.5"L #4-40 Nylon	1902C	Keystone	6	6
45	J1	Terminal Block, 5.08 mm, 2x1, TH	1715721	Phoenix Contact	1	1
46	J2, J4, J6, J10, J12, J14	Header, 2mm, 2x1, Gold, Black, TH	M22-2510205	Harwin	6	6
47	J5	Header, 1.27 mm, 5x2, Gold, TH	FTSH-105-01-F-D-K	Samtec	1	1
48	J7, J8	Receptacle, 2.54mm, 10x2, Tin, TH	SSQ-110-03-T-D	Samtec	2	2
49	J9	Header, 2mm, 2x2, Gold, TH	951204-8622-AR	3M	1	1
50	J11	Header, 2.54mm, 3x2, Gold, TH	61300621121	Würth Elektronik	1	1
51	J13	Header, 100mil, 5x2, Gold, TH	TSW-105-07-G-D	Samtec	1	1
52	L1	Power Inductor (SMD), 4.7 µH, 5.1 A, Shielded, 4.5 A, XAL40xx Series, 4mm x 4mm x 3.1mm	XAL4030-472MEC	Coilcraft	1	1
53	L2, L4, L5, L6	Inductor, Shielded, Metal Composite, 470 nH, 3.6 A, 0.032 ohm, SMD	DFE201610E-R47M=P2	MuRata	4	4
54	L3	Inductor, Shielded, Composite, 2.2 uH, 3.7 A, 0.02 ohm, SMD	XFL4020-222MEB	Coilcraft	1	1
55	LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	THT-14-423-10	Brady	1	1
56	MK1	Microphone, Electret Condenser, Omnidirectional, -42 dB, SMD	CMA-6542TF-K	CUI Inc.	1	1
57	Q1	MOSFET, P-CH, -20 V, -3.7 A, SOT-23	SI2323DS	Vishay-Siliconix	1	1
58	Q2, Q3, Q4, Q5	N-Channel 30V 270mA (Ta) 330mW (Ta) Surface Mount SC-70-3 (SOT323)	NTS4001NT1G	On Semiconductor	4	4
59	R1, R2, R3, R42, R86, R87, R95, R100, R108, R112, R151	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	RMCF0603ZT0R00	Stackpole Electronics Inc	11	11
60	R4	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	ERJ-2GEJ101X	Panasonic	1	1
61	R5, R13, R18, R19, R34, R43, R44, R77, R111, R117, R122, R129, R131, R132, R161, R170, R187	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	ERJPA2F1002X	Panasonic	17	17
62	R6, R11, R35, R36, R37, R38, R39, R40	RES, 100 k, 1%, 0.1 W, 0402	ERJ-2RKF1003X	Panasonic	8	8
63	R7, R8, R12, R17, R21, R23, R24, R30, R31, R32, R45, R51, R52, R53, R60, R66, R69, R70, R73, R74, R75, R79, R80, R82, R84, R90, R115, R119, R125, R126, R130, R143, R144, R153, R154, R155, R156, R158, R159, R162, R171, R174, R175, R176, R178, R179, R180, R181, R184	RES, 0, 5%, 0.063 W, 0402	RC0402JR-070RL	Yageo America	49	49
64	R9, R10	RES, 232 k, 1%, 0.063 W, 0402	RC1005F2323CS	Samsung Electro-Mechanics	2	2
65	R14	RES, 2.20 k, 0.1%, 0.0625 W, AEC-Q200 Grade 0, 0402	ERA2AEB222X	Panasonic	1	1
66	R16, R22, R96, R97, R98, R116, R118, R163, R164, R165, R166, R167, R168	RES, 100 k, 1%, 0.05 W, 0201	RC0201FR-07100KL	Yageo America	13	13
67	R25, R26, R27, R28, R29, R121	RES, 49.9, 1%, 0.063 W, 0402	RC0402FR-0749R9L	Yageo America	6	6
68	R41	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW04020000Z0ED	Vishay-Dale	1	1
69	R55, R56, R57, R89, R104, R105, R113, R172, R173, R182, R183, R185, R186	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW04021K00FKED	Vishay-Dale	13	13
70	R61, R106	RES, 240, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	ERJ-2RKF2400X	Panasonic	2	2
71	R62	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	CRCW060349R9FKFA	Vishay-Dale	1	1
72	R63	RES, 1.00 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	RMCF0402FT1M00	Stackpole Electronics Inc	1	1
73	R64	RES, 0.04, 1%, 1 W, 2010	CSRN2010FK40L0	Stackpole Electronics Inc	1	1
74	R67	RES, 324 k, 1%, 0.1 W, 0603	RC0603FR-07324KL	Yageo	1	1
75	R68	RES, 28.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	CRCW060328K7FKFA	Vishay-Dale	1	1
76	R72	RES, 147 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	CRCW0603147KFKEA	Vishay-Dale	1	1
77	R76, R85, R120	RES, 4.70 k, 1%, 0.1 W, 0402	ERJ-2RKF4701X	Panasonic	3	3
78	R91, R137, R152	RES, 100 k, 0.5%, 0.1 W, 0805	RR1220P-104-D	Susumu Co Ltd	3	3
79	R93, R107, R141, R148	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW0402100KFKEA	Vishay-Dale	4	4
80	R94	RES, 475 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW0402475KFKEA	Vishay-Dale	1	1
81	R99	RES, 124 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW0402124KFKEA	Vishay-Dale	1	1
82	R109	RES, 511 k, 1%, 0.05 W, 0201	RC0201FR-07511KL	Yageo America	1	1
83	R110	RES, 91.0 k, 1%, 0.1 W, 0603	RC0603FR-0791KL	Yageo	1	1
84	R114	RES, 36.5 k, 1%, 0.1 W, 0603	CRCW060336K5FKFA	Vishay-Dale	1	1
85	R124, R134, R150	RES, 0.02, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	RL0603FR-070R02L	Yageo America	3	3

86	R127, R128	RES, 100 k, 0.1%, 0.063 W, 0402	RG1005P-104-B-T5	Susumu Co Ltd	2	2
87	R133	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW040210K0JNED	Vishay-Dale	1	1
88	R135, R149	RES, 82.5 k, 1%, 0.05 W, 0201	RC0201FR-0782K5L	Yageo America	2	2
89	R142	RES, 82.5 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW040282K5FKED	Vishay-Dale	1	1
90	R147	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW0402200KFKED	Vishay-Dale	1	1
91	SW1, SW2	Tactile Switch SPST-NO Top Actuated Surface Mount	430152070826	Würth Electronics	2	2
92	SW3	DIP Switch, SPST, 3Pos, Slide, SMT	CVS-03TB	Copal Electronics	1	1
93	TP4	Test Point, Miniature, Red, TH	5000	Keystone	1	1
94	U1	SimpleLink Wi-Fi and Internet-of-Things Dual Band Module Solution, a Single-Chip Wireless MCU, MON0063A (QFM-63)	CC3235MODASF12MONR	Texas Instruments	1	1
95	U2	3.2 W Mono Class-D With Auto-Recovering Short-Circuit Protection, -40 to 85 degC, 9-pin BGA (YFF9), Green (RoHS & no Sb/Br)	TPA2011D1YFFR	Texas Instruments	1	1
96	U3, U5	+/-6V, Low IQ Ideal Diode with Input Polarity Protection, DCK0006A (SOT-SC70-6)	LM66100DCKT	Texas Instruments	2	2
97	U4, U10, U19, U20	5.5-V, 1.5-A, 100-mohm Load Switch with Output Discharge, DCK0006A (SOT-SC70-6)	TPS22919DCKT	Texas Instruments	4	4
98	U6	Ambient Light Sensor (ALS), DNP0006A (USON-6)	OPT3004DNPR	Texas Instruments	1	1
99	U7	200-mA, nanopower-IQ (200 nA), low-dropout (LDO) voltage regulator with enable 4-X2SON -40 to 125	TPS7A0325PDQNR	Texas Instruments	1	1
100	U8	Low-Capacitance +/- 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	TPD2E001DRLR	Texas Instruments	1	1
101	U9	15-V Output Voltage Non-Sync Boost Converter, DBV0006A (SOT-23-6)	TLV61048DBVR	Texas Instruments	1	1
102	U11, U16	1A Step-Down Converter With 1% Accuracy, DLC0008A (VSON-HR-8)	TPS62821DLCR	Texas Instruments	2	2
103	U12	High Current, High Efficiency Single Inductor Buck-Boost Converter, DLA0010A (VSON-HR-10)	TPS63802DLAT	Texas Instruments	1	1
104	U13	TPS63900DSK, DSK0010A (WSON-10)	TPS63900DSK	Texas Instruments	1	1
105	U14	2-A High Efficiency Synchronous Buck Converter, DMQ0006A (VSON-HR-6)	TPS62825DMQR	Texas Instruments	1	1
106	U17	1.8V 128-BIT SERIAL FLASH MEMORY WITH DUAL QUAD SPI & QPI, WSON8	MX25U12835FZNI-10G	Macronix	1	1
107	U18	Single MicroPower, Rail-to-Rail, Single Supply Amplifier, 1.8 to 3.6 V, 0 to 70 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	TLV2761CD	Texas Instruments	1	1
108	U21, U22	4-Channel ESD Protection With +/-15kV Contact ESD, DPW0004A (X2SON-4)	TPD4E101DPWR	Texas Instruments	2	2
109	Y1	Crystals 1.6x1.2 Seam Seal MHz Quartz Xtal -4pad / Ceramic, +/-10ppm @25C, +/-20ppm (-40 to 85C), 8pF	8Q-24.000MEEV-T	TXC Corporation	1	1
110	C1, C2	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0402	GRM155R71C102KA01D	MuRata	0	0
111	C57	CAP, CERM, 22 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	CGA6P1X7R1C226M250AC	TDK	0	0
112	C65, C67, C68, C111, C120	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	GRM21BR61A476ME15L	MuRata	0	0
113	C72, C113	CAP, CERM, 10 uF, 16 V, +/- 10%, X7R, 0805	CL21B106KOQNNNE	Samsung Electro-Mechanics	0	0
114	C87, C89	CAP, CERM, 4.7 uF, 16 V, +/- 20%, X5R, 0402	CC0402MRX5R7BB475	Yageo America	0	0
115	C115, C118, C123, C124	CAP CER 0.1UF 16V 10% X7R 0402		Murata Electronics North America	0	0
116	C125	CAP, CERM, 1000 pF, 50 V, +/- 5%, COG/NP0, 0402	GRM1555C1H102JA01D	MuRata	0	0
117	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	0	0
118	R15, R20, R33	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	ERJPA2F1002X	Panasonic	0	0
119	R46, R47, R48, R49, R50, R54, R58, R59, R65, R71, R78, R81, R83, R136, R138, R139, R140, R157, R160, R169, R177	RES, 0, 5%, 0.063 W, 0402	RC0402JR-070RL	Yageo America	0	0
120	R88, R101, R123	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	RMCF0603ZT0R00	Stackpole Electronics Inc	0	0
121	R92, R102, R103, R145, R146	RES, 0.33, 1%, 0.125 W, 0402	ERJ-2BQFR33X	Panasonic	0	0
122	U15	1-A Low-Voltage H-Bridge Driver, DSG0008A (WSON-8)	DRV8837CDSG	Texas Instruments	0	0
123	!PCB	Printed Circuit Board- Sensor Board	Sensor_Board	Any	1	1
124	C1, C3, C4, C5, C9, C10, C11, C12, C13, C15, C16, C17, C19, C20	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	GRM155R71C104KA88D	MuRata	14	14
125	C2	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	GRM188Z71A106MA73D	MuRata	1	1
126	C8, C14	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	C1005X7S1A105K050BC	TDK	2	2
127	C21	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0402	C0402C106M9PACTU	Kemet	1	1
128	C23	CAP, CERM, 4.7 uF, 10 V, +/- 20%, X5R, 0402	GRM155R61A475MEAAD	MuRata	1	1
129	CN1	Plug, SMT, Vertical, 1.25mm, 1x2	53398-0271	Molex	1	1
130	CN2, CN3	40 Position Connector Receptacle, Outer Shroud Contacts Surface Mount	FX12B-40S-0.4SV(30)	Hirose	2	2
131	FB1	120 Ohms @ 100MHz 1 Power Line Ferrite Bead 0603 (1608 Metric) 3A 30mOhm	BLM18KG121TN1D	Murata	1	1
132	FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3	3
133	J1, J3	Header, 1.27 mm, 2x1, Gold, R/A, TH	GRPB021VWCN-RC	Sullins Connector Solutions	2	2
134	J2	Header, 2.54mm, 3x1, Gold, SMT	M20-8770342	Harwin	1	1
135	L1	Inductor, Shielded, Metal Composite, 2.2 uH, 1.8 A, 0.116 ohm, SMD	DFE201612E-2R2M=P2	MuRata	1	1
136	R1, R7, R9, R12, R13	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW04020000Z0ED	Vishay-Dale	5	5

137	R3	RES, 10.0 k, 1%, 0.063 W, 0402	RC0402FR-0710KL	Yageo America	1	1
138	R10	RES, 4.70 k, 1%, 0.1 W, 0402	ERJ-2RKF4701X	Panasonic	1	1
139	R11	RES, 28.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW040228K7FKED	Vishay-Dale	1	1
140	U1	1/2.7-Inch 2-Mega Pixel CMOS Image Sensor	SP2329	SuperPix	1	1
141	U2	1-A Low-Voltage H-Bridge Driver, DSG0008A (WSON-8)	DRV8837CDSG	Texas Instruments	1	1
142	U4	Ultra low IQ Step Down Converter, DLC0008A (VSON-HR-8)	TPS62840DLCR	Texas Instruments	1	1
143	C6, C7	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, 0402	C1005X7S1A105K050BC	TDK	0	0
144	C18	CAP, CERM, 47 uF, 10 V, +/- 20%, X5R, 0805	GRM21BR61A476ME15L	MuRata	0	0
145	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	0	0
146	GND1, GND2	Test Point, Compact, Red, TH	5005	Keystone	0	0
147	R2, R6, R14	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	CRCW04020000Z0ED	Vishay-Dale	0	0
148	R5	RES, 10.0 k, 1%, 0.063 W, 0402	RC0402FR-0710KL	Yageo America	0	0
149	R8	RES, 0.33, 1%, 0.125 W, AEC-Q200 Grade 0, 0402	ERJ-2BQFR33X	Panasonic	0	0
150	U3	300-mA, Ultra-Low-Noise, Low-IQ, High PSRR LDO	TPS7A2028PDQNR	Texas Instruments	0	0

Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Alternate Manufacturer	Alternate PartNumber
Digi-Key	<a href="#">A106145CT-ND</a>	Newark	<a href="#">53M9784</a>		
Digi-Key	<a href="#">399-11270-1-ND</a>				
Digi-Key Mouser	<a href="#">490-3257-1-ND</a> <a href="#">81-GCM188R71C105MA4D</a>	Mouser	<a href="#">81-GRM155R71C333KA01</a>		
Digi-Key Mouser	<a href="#">732-7532-1-ND</a> <a href="#">81-GRM188Z71C225KE3D</a>	Mouser	<a href="#">710-885012205037</a>		
Digi-Key Mouser	<a href="#">445-13798-1-ND 0E</a> <a href="#">0E1276-2872-6-ND 0E</a> <a href="#">81-GRM033Z71C104KE4D</a>	Newark	<a href="#">72W1722</a>		
Digikey	<a href="#">490-6255-1-ND</a>	Mouser	<a href="#">81-GRM1555C1H8R2BA1D</a>		
Digi-Key	<a href="#">490-6186-1-ND</a>	Mouser	<a href="#">81-GRM1555C1H100FA1D</a>		
Digi-Key	<a href="#">445-14258-1-ND</a>	Newark	<a href="#">29X4799</a>		
Digi-Key	<a href="#">490-5523-1-ND</a>	Newark	<a href="#">24R6339</a>		
Digi-Key	<a href="#">490-1292-1-ND</a>	Mouser	<a href="#">81-GRM1555C1H121JA01</a>		
Digi-Key	<a href="#">1276-7076-1-ND</a>				
Digi-Key	<a href="#">445-9077-1-ND</a>	Newark	<a href="#">07W9175</a>		
Digi-Key	<a href="#">490-3896-1-ND</a>	Mouser	<a href="#">81-GRM188R60J106ME47</a>		
Digi-Key	<a href="#">490-7611-1-ND</a>	Newark	<a href="#">55Y9854</a>		
Digi-Key	<a href="#">490-9665-1-ND</a>	Mouser	<a href="#">81-GRM155R70J105MA2D</a>		
Digi-Key	<a href="#">490-3298-1-ND</a>	Mouser	<a href="#">81-GRM188R60G106ME47</a>		
Digi-Key	<a href="#">GRM155R60G106ME44D-ND</a>	Mouser	<a href="#">81-GRM155R60G106ME4D</a>		
Digi-Key	<a href="#">445-5723-1-ND</a>	Newark	<a href="#">62W5993</a>		
Digi-Key	<a href="#">732-7469-1-ND</a>	Mouser	<a href="#">710-885012005055</a>		
Digi-Key	<a href="#">A98333-ND</a>	Newark	<a href="#">12H8386</a>		
Digikey	<a href="#">732-3819-1-ND</a>	Mouser	<a href="#">710-693071010811</a>		
Digi-Key	<a href="#">WM7606CT-ND</a>	Newark	<a href="#">07P8661</a>		
Digi-Key	<a href="#">H11407CT-ND</a>	Mouser	<a href="#">798-FX12B-40P-0.4SV</a>		
Digi-Key	<a href="#">H125274CT-ND</a>	Mouser	<a href="#">798-ZX62R-B-5P30</a>		
Digi-Key	<a href="#">S2012E-01-ND</a>				
Digi-Key	<a href="#">S9014E-04-ND</a>				
				Texas Instruments	
Digikey	<a href="#">490-5254-1-ND</a>	Mouser	<a href="#">81-BLM18KG121TN1D</a>		
Digi-Key	<a href="#">H542-ND</a>				

Digi-Key	<a href="#">36-1902C-ND</a>				
Digi-Key	<a href="#">277-1263-ND</a>				
Digi-Key	<a href="#">952-1311-ND</a>	Newark	<a href="#">33K3483</a>		
Digi-Key	<a href="#">FTSH-105-01-F-D-K-ND</a>	Newark	<a href="#">01R3389</a>		
Digi-Key	<a href="#">SAM1204-10-ND</a>	Newark	<a href="#">11P8392</a>	Major League Electronics	CRD-081413-A-G
Digi-Key	<a href="#">3M9188-04-ND</a>	Newark	<a href="#">15P0079</a>		
Digi-Key	<a href="#">732-5295-ND</a>	Newark	<a href="#">20X0959</a>		
Digi-Key	<a href="#">SAM1028-05-ND</a>				
		Mouser	<a href="#">994-XAL4030-472MEC</a>		
Digi-Key	<a href="#">490-18109-1-ND</a>	Mouser	<a href="#">81-DFE201610E-R47MP2</a>		
Mouser	<a href="#">994-XFL4020-222MEB</a>				
Newark	<a href="#">97C5133</a>	Farnell	<a href="#">2065596</a>		
Digi-Key	<a href="#">102-1719-ND</a>				
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Digi-Key	<a href="#">RMCF0603ZTOR00CT-ND</a>				
Digi-Key	<a href="#">P100JCT-ND</a>	Newark	<a href="#">65T8246</a>		
Digi-Key	<a href="#">P17230CT-ND</a>	Newark	<a href="#">85Y6094</a>		
	<a href="#">P100KLCT-ND</a>				
Digi-Key	<a href="#">311-0.0JRCT-ND</a>	Mouser	<a href="#">603-RC0402JR-070RL</a>		
Digi-Key	<a href="#">1276-4230-1-ND</a>				
Digi-Key	<a href="#">P2.2KDCCT-ND</a>	Newark	<a href="#">05X8513</a>		
Digi-Key	<a href="#">311-100KMCT-ND</a>	Mouser	<a href="#">603-RC0201FR-07100KL</a>		
Digi-Key	<a href="#">311-49.9LRCT-ND</a>	Newark	<a href="#">67R9942</a>		
Digi-Key	<a href="#">541-0.0JCT-ND</a>	Newark	<a href="#">52K6543</a>		
Digi-Key	<a href="#">541-1.0KAVCT-ND OE, 541-1.0KAVCT-ND OE OE</a>	Newark	<a href="#">52K6545</a>		
Digi-Key	<a href="#">P240LCT-ND</a>	Newark	<a href="#">73T6495</a>		
Digi-Key	<a href="#">541-49.9HCT-ND</a>	Newark	<a href="#">52K8566</a>		
Digi-Key	<a href="#">RMCF0402FT1M00CT-ND</a>				
Digi-Key	<a href="#">CSRN2010FK40LOCT-ND</a>				
Digi-Key	<a href="#">311-324KHRCT-ND</a>	Mouser	<a href="#">603-RC0603FR-07324KL</a>		
Digi-Key	<a href="#">541-28.7KHCT-ND</a>	Newark	<a href="#">52K8357</a>		
Digi-Key	<a href="#">541-147KHCT-ND</a>	Newark	<a href="#">52K8148</a>		
Digi-Key	<a href="#">P4.70KLCT-ND</a>	Newark	<a href="#">64R5288</a>		
Digi-Key	<a href="#">RR12P100KDCT-ND</a>	Newark	<a href="#">28K0934</a>		
Digi-Key	<a href="#">541-100KLCT-ND</a>	Newark	<a href="#">52K6607</a>		
Digi-Key	<a href="#">541-475KLCT-ND</a>	Newark	<a href="#">52K7102</a>		
Mouser	<a href="#">71-CRCW0402-124K-E3</a>	Newark	<a href="#">52K6662</a>		
Digi-Key	<a href="#">YAG2715CT-ND</a>	Mouser	<a href="#">603-RC0201FR-07511KL</a>		
Digi-Key	<a href="#">311-91.0KHRCT-ND</a>	Mouser	<a href="#">603-RC0603FR-0791KL</a>		
Digi-Key	<a href="#">541-36.5KHCT-ND</a>	Mouser	<a href="#">71-CRCW0603-36.5K-E3</a>		
Digi-Key	<a href="#">311-.02QCT-ND</a>	Mouser	<a href="#">603-RL0603FR-070R02L</a>		

Digi-Key	<a href="#">RG10P100KBCT-ND</a>	Newark	<a href="#">85K1460</a>		
Digi-Key	<a href="#">541-10KAVCT-ND 0E</a>	Newark	<a href="#">59M6696</a>		
Digi-Key	<a href="#">YAG2815CT-ND</a>	Mouser	<a href="#">603-RC0201FR-0782K5L</a>		
Digi-Key	<a href="#">541-82.5KLCT-ND</a>	Newark	<a href="#">52K7304</a>		
Digi-Key	<a href="#">541-200KLCT-ND</a>	Newark	<a href="#">52K6825</a>		
Digikey	<a href="#">732-6995-1-ND</a>	Mouser	<a href="#">710-430152070826</a>		
Digi-Key	<a href="#">563-1194-1-ND</a>				
Digi-Key	<a href="#">36-5000-ND</a>	Mouser	<a href="#">534-5000</a>		
				Texas Instruments	
				Texas Instruments	LM66100DCKR
				Texas Instruments	TPS22919DCKR
				Texas Instruments	OPT3004DNPT
				Texas Instruments	TLV61048DBVT
				Texas Instruments	
				Texas Instruments	TPS63802DLAR
				Texas Instruments	
				Texas Instruments	TPS62825DMQT
Digi-Key	<a href="#">1092-1233-ND</a>				
				Texas Instruments	
		Mouser	<a href="#">717-8Q-24.000MEIV-T</a>		
Digi-Key	<a href="#">GRM155R71C102KA01D-ND</a>	Mouser	<a href="#">81-GRM155R71C102KA1D</a>		
Digi-Key	<a href="#">445-5723-1-ND</a>	Newark	<a href="#">62W5993</a>		
Digi-Key	<a href="#">490-9961-1-ND</a>	Newark	<a href="#">96Y9273</a>		
Digi-Key	<a href="#">311-3482-1-ND</a>	Mouser	<a href="#">603-CC0402MRX57BB475</a>		
Digi-Key	<a href="#">490-3244-1-ND</a>	Mouser	<a href="#">81-GRM1555C1H102JA1D</a>		
Digi-Key	<a href="#">P17230CT-ND</a>	Newark	<a href="#">85Y6094</a>		
Digi-Key	<a href="#">311-0.0JRCT-ND</a>	Mouser	<a href="#">603-RC0402JR-070RL</a>		
Digi-Key	<a href="#">RMCF0603ZTOR00CT-ND</a>				
Digi-Key	<a href="#">P.33AKCT-ND</a>	Mouser	<a href="#">667-ERJ-2BQFR33X</a>		
				Texas Instruments	
Digi-Key	<a href="#">490-3261-1-ND</a>	Newark	<a href="#">38K1647</a>		
Mouser	<a href="#">81-GRM188Z71A106MA3D</a>				
Digi-Key	<a href="#">445-9116-1-ND</a>	Newark	<a href="#">07W9147</a>		
Mouser	<a href="#">80-C0402C106M9P</a>	Newark	<a href="#">75Y0593</a>		
Digikey	<a href="#">490-14306-1-ND</a>				
Digi-Key	<a href="#">WM7606CT-ND</a>	Newark	<a href="#">07P8661</a>		
Digikey	<a href="#">FX12B-40S-0.4SV(30)-ND</a>	Mouser	<a href="#">798-FX12B40S04SV30</a>		
Digikey	<a href="#">490-5254-1-ND</a>	Mouser	<a href="#">81-BLM18KG121TN1D</a>		
Digi-Key	<a href="#">S9016E-02-ND</a>				
Digi-Key	<a href="#">952-1951-ND</a>	Newark	<a href="#">74M3424</a>		
Digi-Key	<a href="#">541-0.0JCT-ND</a>	Newark	<a href="#">52K6543</a>		

Digi-Key	<a href="#">311-10.0KLRCT-ND</a>	Newark	<a href="#">98K7499</a>		
Digi-Key	<a href="#">P4.70KLCT-ND</a>	Newark	<a href="#">64R5288</a>		
Digi-Key	<a href="#">541-28.7KLCT-ND</a>	Newark	<a href="#">52K6916</a>		
				Texas Instruments	
				Texas Instruments	
Digi-Key	<a href="#">445-9116-1-ND</a>	Newark	<a href="#">07W9147</a>		
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Digi-Key	<a href="#">36-5005-ND</a>	Mouser	<a href="#">534-5005</a>		
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Digi-Key	<a href="#">P.33AKCT-ND</a>	Mouser	<a href="#">667-ERJ-2BQFR33X</a>		



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