

	Board Name & Rev No	TMD5SK358 - 1.2B	Date of Release	7/11/2012
	Revision	1		
	Schematics File & Revision	TMD5SK358_3H0009_REV1_2B_SC H.dsn		

Item Number	Quantity	Part Reference	Value	DescriptiveText	Mfr	MfrNum	PCB Footprint	TIIntPartNumber	Vendor	
1	1	A1		LBE525TNC-523	WiFi / BT Module Type TN	Murata	LBE525TNC-523	MOD17X10-62P	4P0023	Murata
2	1	A2		NHD-4.3-480272MF-ATXIH-T-1	LCD TFT 480x272 RGB Resistive Touch	NewHaven Display	NHD-4.3-480272MF-ATXIH-T-1	DNP	4P0024	NewHaven Display
3	1	ANT1		LD312G7313F-237	2.4Ghz WiFi Antenna cf=2.73Ghz	Murata	LD312G7313F-237	SMD1206-antenna	1L0039	Digikey
4	55	C1 C3 C11 C13 C15 C16 C18 C34 C36 C38 C40 C47 C48 C54 C58 C65 C66 C71 C73 C89 C124 C125 C133 C138 C145 C146 C150 C153 C155 C167 C187 C189 C194 C196 C199 C199 C205 C214 C218 C222 C223 C224 C241 C242 C246 C248 C251 C253 C265 C266 C272 C276 C278 C280 C281	0.1uF	Capacitor 0.1uF 16V 10% 0402 X7R	Kemet	C0402C104K4RACT	SM-7351-CAP-0402	1C0089	Digikey	
5	14	C2 C3 C12 C23 C26 C33 C42 C46 C63 C76 C77 C134 C176 C193	4.7uF	Capacitor Ceramic 4.7uF 16V 10% 0603	Taiyo Yuden	EMK107AB475KA-T	SM-7351-CAP-0603	1C0103	Digikey	
6	2	C4 C6	18pF, 10V, 2%	Capacitor 18pF 10V 2% 0402	AVX	0402ZK180GBSTR	SM-7351-CAP-0402	1C0121	Digikey	
7	21	C7 C14 C32 C35 C37 C39 C41 C83 C122 C137 C154 C195 C197 C217 C220 C228 C243 C252 C254 C256 C263	1uF	Capacitor 1uF 10V Ceramic 10% 0402	AVX	0402ZD105KAT2A	SM-7351-CAP-0402	1C0084	Digikey	
8	4	C8 C9 C10 C17	0.1uF	Capacitor 0.1uF 50V 10% 0402 X7R	TDK	C1005X7R1H104K	SM-7351-CAP-0402	1C0105	Digikey	
9	77	C19 C20 C45 C50 C51 C52 C53 C55 C56 C57 C59 C60 C61 C62 C69 C70 C72 C78 C79 C80 C82 C84 C85 C86 C87 C90 C91 C92 C93 C94 C95 C96 C98 C99 C100 C101 C102 C103 C104 C105 C106 C107 C115 C116 C126 C127 C136 C149 C151 C156 C157 C159 C160 C161 C162 C163 C164 C166 C170 C180 C188 C190 C191 C192 C206 C215 C225 C230 C231 C236 C239 C255 C258 C259 C264 C274 C275	0.01uF	Capacitor 0.01uF 16V 10% 0402	Panasonic	ECJ-0Y81C103K	SM-7351-CAP-0402	1C0012	Digikey	
10	2	C21 C22	22uF	Capacitor 22uF 16V Ceramic 10% 0805	TDK	C2012XSR1C226K	SM-7351-CAP-0805	1C0094	Digikey	
11	0	C24 C183	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
12	2	C25 C207	2.2uF, 10V	Capacitor 2.2uF 10V 20% Ceramic 0402	Taiyo Yuden	LMK105B1225MV-F	SM-7351-CAP-0402	1C0123	Digikey	
13	34	C27 C28 C29 C30 C43 C44 C49 C67 C74 C97 C117 C123 C132 C139 C140 C141 C158 C177 C178 C179 C182 C186 C200 C203 C204 C216 C219 C235 C244 C264 C267 C270 C273 C277	10uF	Capacitor 10uF 16V 10% Ceramic 0805	AVX	0805YD10GKAT2A	SM-7351-CAP-0805	1C0085	Digikey	
14	9	C31 C210 C211 C212 C213 C221 C227 C232 C238	2.2uF	Capacitor 2.2uF Ceramic, 6.3V, XSR, 20%	Taiyo Yuden	JKM105B1225MV-F	SM-7351-CAP-0402	1C0091	Digikey	
15	0	C64	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
16	0	C68 C81 C226 C229 C237 C240	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
17	1	C75	4.7uF	Capacitor 4.7uF 50V 20% Ceramic smd	TDK	C2012XSR1H475M	SM-7351-CAP-0805	1C0108	Digikey	
18	2	C88 C171	0.001uF	Capacitor 0.001uF 50V 5% 0402	AVX	0402CS102JAT2A	SM-7351-CAP-0402	1C0093	Digikey	
19	31	C108 C109 C130 C111 C112 C113 C114 C118 C119 C120 C121 C128 C129 C130 C131 C142 C143 C144 C147 C148 C165 C168 C169 C172 C173 C174 C175 C260 C268 C269 C271	0.1uF, 6.3V	Capacitor 0.1uF 6.3V 10% 0201 X5R	Murata	GRM033R60104KE19D	SMD0201	1C0122	Digikey	
20	2	C135 C152	2.2uF	Capacitor 2.2uF 16V 10% 0805	Kemet	C0805C225K4RACTU	SM-7351-CAP-0805	1C0097	Digikey	
21	2	C181 C185	47uF	Capacitor 47uF 16V Ceramic X5R 1206	TDK	C3216XSR1C476M	SM-7351-CAP-1206	1C0101	Digikey	
22	0	C184	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
23	4	C201 C202 C233 C234	27pF	Capacitor Thin Film 27PF 10V 5% 0402	Vishay/Electro-Films	RFC504022700BJT1	SM-7351-CAP-0402	1C0120	Vishay	
24	0	C208 C209	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
25	2	C245 C250	18pF, 50V	Capacitor NPO 18pF 50V 5% 0402	TDK	CGA2B2C0G1H80J	SM-7351-CAP-0402	1C0119	Mouser	
26	2	C247 C249	22pF	Capacitor 22pF 50V 10% 0402	Panasonic	ECJ-0E31H220J	SM-7351-CAP-0402	1C0020	Digikey	
27	1	C257	15pF	Capacitor Ceramic 15pF 50V 10% 0402	Kemet	C0402C150J5GACTU	SM-7351-CAP-0402	1C0087	Digikey	
28	1	C262	100uF	Capacitor 100uF 16V Polymer 20% smd can	United Chemicon	APXE160ARA101MH70G	SM-7351-CAP-smdcan	1C0096	Digikey	
29	0	C279	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
30	5	D1 D2 D3 D4 D5	Green LED	LED Green SMD 20mA 2V 0805	Dialight	598-8170-107F	sm_led_0805	1F0008	Digikey	
31	0	D6	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
32	1	D7	SMCJ7.0CA	Voltage Suppressor 7.0V	Littlefuse	SMCJ7.0CA	SMCJ15CA	1E0022	Digikey	
33	1	D8	B520C-13-F	Diode Power Rectifier 5A Schottky	Diodes Inc	B520C-13-F	B520C-13-F	1E0012	Digikey	
34	1	F1	Fuse 4A	Fuse Block with 4A Fuse	Littlefuse	0154004.DRT	smdfuseblk	1P0004	Digikey	
35	16	F81 F82 F83 F84 F85 F86 F87 F88 F89 F810 F811 F812 F813 F818 F819 F820	1500HM800mA	Ferrite Bead 150 Ohm 800mA	Steward	LI0805H151R-10	sm-7351-ind-0805	1L0010	Digikey	
36	4	F814 F815 F816 F817	600MAF810ohm	Ferrite Bead 600mA 10ohm	TDK	HF70ACB201209	HF70ACB201209	1L0028	Digikey	
37	1	I1	S4132-4097	Connector 0.5mm pitch, 40 Pin, 0.5A/50V, FFC	Molex	S4132-4097	CNFP1340-0P5MM	2C0101	Molex	
38	1	I2	0522070685	Connector 1.00mm Pitch FFC, RA, SMT 8pin, TOP contact	Molex	0522070685	CNS2271-0679		Molex	
39	1	I3	USB_MicroAB	Connector Micro USB AB RA	Hirose	ZK62-AB-SPA(11)	ZK62-AB-SPA	2C0088	Digikey	
40	1	I4	SCHAS80200	Connector compact low-profile Push Type Micro SD	ALPS	SCHAS80200	SD-MICRO-SCHAS80200	2C0102	Mouser	
41	1	I5	USB A	CONN USB RECEPT TYPE A PCB	FCI	87520-0010BLF	usb_std_a_th	2C0017	Digikey	
42	2	I6 J7	RJ-45 Gigabit	Connector MagRJ-45 Jack w/LED Gigabit	LINK-PP	LPJG16314AANL	6605814-6			
43	0	I8	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
44	1	I9	Power Jack RACP712X	Jack Power Right-Angle 3conductor	Switchcraft	RACP712X	RACP712		Digikey	
45	1	I10	MM8130-2600	Connector coaxial	Murata	MM8130-2600R88	CNNM8130-CJUS-T1	2C0104	Murata	
46	0	I11	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
47	0	I12	DNI	DNI	DNI	DNI	DNI	DNI	DNI	
48	1	I13	3.5mm SJS24	Connector Audio 3.5mm 2Signal with switch	CUI	SI-3524-SMT-1	sjs3524smt4pin	2C0099	Digikey	
49	2	I12 I2	ACM2012	Common Mode Filter for USB/HDML	TDK	ACM2012H-900-2P	ACM2012H	1A0003	Arrow	
50	2	I13 I5	4.7uH	Inductor 4.7uH 30% smt 0.9A	FDK	MIPF2016D487	mipf2016	1L0029	Digikey	
51	1	I14	4.7uH	Inductor 4.7uH 30% smt 3.1A	TDK	SIF7055T-4R7N3R1-3PF	smd_sif7055t	1L0033	Digikey	
52	6	I16 I17 L8 L10 L11 L12	2.2uH	Inductor 2.2uH smt 2.6A, 58 milliohm	TDK	VLFC5020T-2R2N2R6-3	VLFC5020T	1L0025	Digikey	
53	1	I19	4.7uH	Inductor 4.7uH 30% smt 1.7A	TDK	VLFC5020T-4R7N1R7-1	vlcf5020t	1L0030	Digikey	
54	1	I13	5.1nH	Inductor 5.1nH	Murata	LQP15MN5N1B02D	SM-7351-CAP-0402	1L0041	Digikey	
55	36	R29 R20 R54 R55 R72 R73 R75 R77 R78 R79 R80 R84 R85 R87 R109 R115 R117 R122 R139 R140 R143 R157 R187 R201 R210 R213 R217 R227 R228 R229 R230 R232 R233 R239 R243	0	Resistor Zero ohm Jumper 0402	Panasonic	ERI-2GEOR00X	SM-7351-RES-0402	1R0098	Digikey	
56	1	I15	1.3nH	Inductor 1.3nH	Murata	LQP15MN1N3B02D	SM-7351-RES-0402	1L0042	Digikey	
57	4	M2 M3 M4 M5	Screw#2-56, 1/4in	Screw #2-56 1/4in long zinc phillips	Global Fastener	PAN256XR4	DNP	2M0029	Global Fastener	
58	4	M6 M7 M8 M9	Standoff#2-56, 3/16x3/8in	Standoff #2-56 3/16in 3/8 long aluminum hex	RAF	4503-256-AL	DNP	2M0031	Global Fastener	
59	4	M10 M11 M12 M13	Standoff#2-56, 3/16x5/8in	Standoff #2-56 3/16in 5/8 long aluminum hex	RAF	2059-256-AL-7	DNP	2M0030	Global Fastener	
60	1	PC1	TMD5SK358 Board Bare PCB	AM335x TMDXEVMS358-SK Board PCB Bare	TI	3H0009	DNP	3H0009	TI	
61	1	PC2	TMD5SK358 LCD Carrier Bare PCB	TMDXEVMS358SK LCD Carrier PCB Bare	TI	3H0012	DNP	3H0012	TI	
62	5	Q1 Q2 Q3 Q4 Q5	BSS138	MOSFET Nchan 50V 200mA	Diodes Inc.	BSS138-7-F	SOT23-3	1Q0019	Digikey	
63	48	R1 R2 R3 R4 R5 R22 R27 R28 R34 R37 R38 R39 R40 R41 R42 R43 R44 R46 R48 R53 R57 R60 R61 R62 R64 R66 R68 R70 R86 R102 R108 R112 R123 R127 R175 R178 R182 R183 R185 R191 R193 R196 R198 R199 R202 R205 R207 R209	10K	Resistor 10Kohm 1/16W 5% 0402	Rohm	MCR01MZPJ103	SM-7351-RES-0402	1R0168	Digikey	

64	4 R6 R7 R8 R9	220	Resistor 220ohm 1/10W 1% 0402	Panasonic	ERJ-2RKF2200X	SM-7351-RES-0402	1R0176	Digikey
65	0 R10 R216	DNI	DNI	DNI	DNI	DNI	DNI	DNI
66	1 R11	470K	Resistor 470Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F470K	SM-7351-RES-0402	1R0190	Digikey
67	R12 R14 R26 R49 R98 R100 R101 R103 R104 R105 R106 R120 R125 R150 R159 R160 R162 R163 R164	100K	Resistor 100Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F100K	SM-7351-RES-0402	1R0181	Digikey
68	0 R13 R118	DNI	DNI	DNI	DNI	DNI	DNI	DNI
69	7 R15 R131 R141 R142 R177 R179 R219	4.7K	Resistor 4.7Kohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402F4K70	SM-7351-RES-0402	1R0183	Digikey
70	1 R18	180K	Resistor 180Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F180K	SM-7351-RES-0402	1R0209	Digikey
71	1 R19	1.62M	Resistor 1.62Mohm 1/16W 1% 0402	Vishay/Dale	CRCW04021M62FKED	SM-7351-RES-0402	1R0210	Digikey
72	R21 R29 R91 R92 R124 R128 R137 R138 R173 R188 0 R189 R211 R223 R236 R244	DNI	DNI	DNI	DNI	DNI	DNI	DNI
73	0 R23	DNI	DNI	DNI	DNI	DNI	DNI	DNI
74	R24 R51 R52 R56 R65 R67 R69 R71 R129 R130 R132 R133 R134 R135 R136 R147 R148 R168 R171 R174 R176 R180 R181 R186 R190 R192 R194 R195 R197 35 R200 R203 R204 R206 R208 R220	22	Resistor 22 ohm 1/16W 1% 0402	ROHM	MCR01MZF22R0	SM-7351-RES-0402	1R0175	Digikey
75	0 R25 R31 R32 R33 R35 R36 R45 R74 R184 R225	DNI	DNI	DNI	DNI	DNI	DNI	DNI
76	1 R30	1.5K	Resistor 1.5Kohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402F1K50C	SM-7351-RES-0402	1R0188	Digikey
77	R47 R149 R151 R152 R153 R154 R155 R156 R157 0 R158 R161	DNI	DNI	DNI	DNI	DNI	DNI	DNI
78	2 R48 R63	10, 1%	Resistor 10ohm 1/10W 1% 0603	Panasonic	ERJ-3EKF10R0V	sm-7351-res-0603	1R0259	Digikey
79	1 R50	44.2K, 1%	Resistor 44.2Kohm 1/10W 1% 0603	Panasonic-ECG	ERJ3EKF4422V	sm-7351-res-0603	1R0255	Digikey
80	R59 R76 R82 R83 R93 R95 R96 R110 R119 R218 13 R237 R242 R245	10K, 1%	Resistor 10Kohm 1/10W 1% 0402	Panasonic-ECG	ERJ-2RKF1002X	SM-7351-RES-0402	1R0254	Digikey
81	6 R81 R165 R172 R215 R221 R231	2.2K	Resistor 2.2Kohm 1/16W 5% 0402	VishayDale	CRCW04022K20NED	sm-7351-res-0402	1R0169	Digikey
82	2 R88 R89	33	Resistor 33ohm 1/16W 5% 0402	Panasonic	ERJ-2GEJ330X	SM-7351-RES-0402	1R0008	Digikey
83	0 R16 R90 R234 R235	DNI	DNI	DNI	DNI	DNI	DNI	DNI
84	1 R94	240, 1%	Resistor 240 OHM 1/10W 1% 0402 SMD	Panasonic-ECG	ERJ-2RKF2400X	SM-7351-RES-0402	1R0249	Digikey
85	0 R97	DNI	DNI	DNI	DNI	DNI	DNI	DNI
86	2 R99 R214	12, 1K, 1%	RES 12.1K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-0712K1L	SM-7351-RES-0402	1R0247	Digikey
87	2 R107 R166	1K	Resistor 1Kohm 1/16W 5% 0402	Panasonic	ERJ-2GEJ102X	SM-7351-RES-0402	1R0027	Digikey
88	5 R111 R113 R114 R116 R240	150	Resistor 150ohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402F150R	SM-7351-RES-0402	1R0179	Digikey
89	2 R121 R144	0	Resistor Zero ohm jumper 0603	Panasonic	ERJ-3GEY0R00V	SM-7351-RES-0603	1R0096	Digikey
90	1 R126	1.2K, 1/4W	Resistor 1.2Kohm 1/4W 5% 0805	Panasonic	ERJ-P0G122V	sm-7351-res-0805	1R0238	Digikey
91	2 R145 R146	2.37K	Resistor 2.37Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F2K37	SM-7351-RES-0402	1R0187	Digikey
92	0 R169 R170	DNI	DNI	DNI	DNI	DNI	DNI	DNI
93	1 R212	0.1ohm 1% Sense	Resistor 0.1ohm 0.33W Sense 1% 0805	Susumu	RL12205-R10-F	SM_RES_0805_KELV	1R0264	Digikey
94	1 R222	30.1K	Resistor 30.1Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F30K1	SM-7351-RES-0402	1R0173	Digikey
95	1 R224	51K	Resistor 51Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402F51K0	SM-7351-RES-0402	1R0172	Digikey
96	1 R226	49.9	MELF Resistor 49.9ohm 1/3W 1% MELF0102	Vishay	MMU01020C4999FB300	smd_melf0102	1R0243	Digikey
97	1 R238	0.24ohm 1% Sense	Resistor 0.24ohm 0.25W Sense 1% 0805	Susumu	RL12205-R24-F	SM_RES_0805_KELV	1R0193	Digikey
98	0 R241	DNI	DNI	DNI	DNI	DNI	DNI	DNI
99	7 RP1 RP2 RP3 RP4 RP5 RP6 RP7	3348	Resistor 33ohm 1/16W 5% Array SMD	Panasonic	EXB-2HV330V	sm_rpak_ext-2hv	1R0196	Digikey
100	7 SW1 SW2 SW3 SW4 SW5 SW6 SW7	835L	Switch Push Button Tactile	Omron	B35L-1022P	SW_B35L-1022P	2W0018	Digikey
101	4 TP2 TP5 TP11 TP13	TP	Testpoint Miniature Through Hole	Keystone Electronics	5002	TH_TP_5002	2W0026	Digikey
102	1 U1	TPD6E001	ESD Protection Array 6Chan +35K	TI	TPD6E001RSE	U_10_RSE	1A0248	Digikey
103	1 U19	SN74AUP2G08	Low Power Dual AND Gate	TI	SN74AUP2G08DCU	U_8_DCU	1A0249	Digikey
104	1 U2	TPD2E001	ESD Protection Array 2Chan +35KV	TI	TPD2E001DRL	U_5_DRL	1A0247	Digikey
105	1 U26	AM335X_ZC2	ARM MPU Cortex A8 Processor ZC2 Package	TI	AM3359ZC2	mpu335x15-324-59m	1A0242	Arrow
106	1 U3	TPS78633	Linear Power Regulator 3.3V 1.5A	TI	TPS78633DCQ	sopt223_6pin	1A0094	Arrow
107	1 U4	SN74LVC1G00DCK	Single Two input positive NAND	TI	SN74LVC1G00DCK	U_5_DCK	1A0300	Digikey
108	1 U6	SN74LVC1G07	Driver Open Drain output	TI	SN74LVC1G07DCK	u_5_dck	1A0269	Digikey
109	1 U7	TPS61081DRC	Regulator WLED Driver 1.3A	TI	TPS61081DRC	u_10_drc	1A0270	Digikey
110	1 U8	CAT24C256W	EEPROM 256KB 12C S0IC8	On Semiconductor	CAT24C256W-G	S0IC_8	1A0225	Digikey
111	1 U9	93C46B	1K Microwire-Compatible Serial EEPROM	Microchip	93C46-I/OT	S0T212-6	1A0298	Digikey
112	1 U10	US331DLH	Accelerometer 3 Axis 12C	ST Microelectronics	US331DLH	LGA16pin_3x3	1A0227	Digikey
113	3 U11 U12 U29	SN74AVCAT245	Bus Transceiver 4bit Voltage Translator	TI	SN74AVCAT245PW	U_16_PW	1A0245	Digikey
114	1 U13	TPS79518	Linear Power Regulator 1.8V 500mA	TI	TPS79518DCQ	sopt223_6pin	1A0310	Avnet
115	1 U14	TPS51200	DDR Termination Regulator SinkSource	TI	TPS51200DCR	drpcso_10pin	1A0297	Digikey
116	2 U15 U17	TPS45012	ESD Schannel USB Interface	TI	TPS45012DRY	U_6_DRY	1A0233	Digikey
117	1 U16	USB2412_QFN28	USB2412, 2 Port USB 2.0 Hub, QFN28	SMSC	USB2412-D2X-TR	qfn28_5x5	1A0301	Digikey
118	1 U18	TPS2051BD	Power Distribution Switch Current Limited 500mA	TI	TPS2051BD	U_8_D	1A0286	Digikey
119	1 U20	TPS63010	Buck-Boost Converter with 2A Switches	TI	TPS63010YFF	u_20_dsbg	1A0287	Digikey
120	1 U21	TPS71718	Low Dropout 1.8V 150mA Linear Regulator	TI	TPS71718DCK	smdsc70-5	1A0262	Digikey
121	1 U22	KXC218P182HR-G	LDO, 1.8V 200mA,High Precision	Torex	KXC218P182HR-G	uspl_2sqr-3	1A0302	Torex
122	2 U23 U24	AR8031_ALIA	Ethernet Gb PHY	Atheros	AR8031_ALIA	QFN48	1A0250	TBD
123	1 U25	TPS65910A3	Integrated Power Management Unit for DDR3	TI	TPS65910A3A1RSL	U_48_RSL	1A0303	Digikey
124	1 U27	TPS79501	Power Regulator LDO adjustable 500mA	TI	TPS79501DCQ	sopt223_6pin	1A0161	Avneet
125	1 U28	FT232RL	USBHS Dual UART/FIFO	FTDI	FT232RL-REEL	LQFP64pin	1A0294	Digikey
126	1 U30	DLW58TN501SQ2L	Common Mode Filter for power line	Murata	DLW58TN501SQ2L	DLW58TN501SQ2	1M0004	Arrow
127	1 U31	TLV320AC3106	Low power stereo audio codec	TI	TLV320AC3106RQ	veln48_7p2	1A0240	Digikey
128	1 U32	MT41L128M16IT-125	DDR3 SDRAM 2Gb (128Mx16) 1.5V	Micron	MT41L128M16IT-125	BGA14X10-96	1A0317	Arrow
129	1 U5	SN74LVC2G07	Dual Buffer with open drain outputs	TI	SN74LVC2G07DCK	U_6_DCK	1A0232	Digikey
130	0 V1	DNI	DNI	DNI	DNI	DNI	DNI	DNI
131	1 V2	32.768KHz +/-23ppm	32KHz Crystal Oscillator	Epson ToVoCom	5G-3030LC 32.7680KB-R0HS	soj2_4x3_6-12	1Y0038	Digikey
132	2 V3 V6	24MHz	Crystal 24MHz 30ppm load cap 18pF	Citizen	CS325-24.000MAB1-UT	XTALA_3F2X2P5_SMD	1Y0039	Digikey
133	1 V4	25MHz	Crystal 25MHz	Abracorn	ABM95-25.000MHz-82-T	SM_05C_3P4X5	1Y0030	Digikey
134	1 V5	12MHz +/-50ppm	CRYSTAL 12.000 MHZ 20PF SMD	ECS Inc	ECS-120-20-30B-TR	XTALA_3F2X5SMD	1Y0031	Digikey
135	1 V7	32.768KHz MC-306	Crystal 32.768kHz	Epson	MC30632.7680K-A	MC-306	1Y0029	Digikey

IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2017, Texas Instruments Incorporated