

Project name	K2G Audio Daughtercard
Document name	MS_TI_AUDK2G_BOM_REV8_1V1.xls
Date	16th DEC 2015
BOM Version	1.1
Schematic Version	1.2
Board Revision	B
Total number of Boards required	

Legends	Description

Item Number	Quantity	Part Reference	Value	Description	Mfr_name	Mfr_part_number	Distributor_name	Distributor_part_number	Package
1	38	C1 C15 C18 C28 C30 C37 C43 C48 C49 C54 C57 C63 C64 C74 C81 C82 C86 C97 C98 C99 C107 C115 C116 C124 C130 C131 C132 C140 C143 C150 C151 C159 C163 C174 C184 C202 C207 C212	10uF_16V	CAP ELECTROLYTIC 10uF 16V 20% ACASE_3333	NICHICON	UWXIC100MCL2GB	DIGIKEY	493-2099-1-ND	ACASE_3333
2	33	C2 C9 C19 C24 C26 C32 C35 C44 C47 C50 C53 C59 C62 C67 C71 C87 C92 C102 C105 C117 C120 C133 C136 C144 C149 C154 C157 C166 C171 C190 C195 C208 C211	4700pF_100V	CAP FILM 4700pF 100V 5% TH	KEMET	PHE426DJ4470JR05	MOUSER	80-PHE426DJ4470JR05	THRU-HOLE
3	58	C3 C6 C7 C8 C10 C12 C13 C14 C25 C29 C31 C36 C42 C65 C66 C73 C76 C78 C79 C83 C85 C90 C93 C95 C96 C100 C106 C108 C109 C110 C114 C121 C122 C123 C127 C128 C129 C137 C138 C139 C147 C148 C152 C153 C158 C161 C164 C165 C169 C170 C175 C176 C182 C183 C188 C189 C213 C214	0.1uF	CAP CERAMIC 0.1uF 50V 10% X7R 0402	TDK CORPORATION	C1005X7R1H104K	DIGIKEY	445-5932-1-ND	0402
4	32	C4 C5 C20 C21 C33 C34 C45 C46 C51 C52 C60 C61 C69 C70 C88 C89 C103 C104 C118 C119 C134 C135 C145 C146 C155 C156 C167 C168 C192 C193 C209 C210	470pF_63V	CAP FILM 470pF 63V 5% TH	KEMET	PFR5471J63J11L4BULK	DIGIKEY	399-7709-ND	THRU-HOLE
5	17	C11 C22 C27 C72 C84 C172 C173 C191 C194 C196 C197 C198 C199 C200 C201 C203 C205	10uF	CAP CERAMIC 10uF 25V 10% X5R 0805	TDK CORPORATION	C2012X5R1E106K	DIGIKEY	445-5984-1-ND	0805
6	16	C16 C17 C40 C41 C55 C56 C75 C77 C111 C112 C141 C142 C160 C162 C204 C206	10uF_63V	CAP ELECTROLYTIC 10uF 63V 20% D8CASE_6666	NIPPON CHEMICON	EMVH630ADA100MF80G	DIGIKEY	565-2332-1-ND	D8CASE_6666
7	1	C23	68000pF_300V	CAP FILM 68000pF 300V 5% TH	KEMET	PHE426JA5680JR05	MOUSER	80-PHE426JA5680JR05	THRU-HOLE
8	6	C38 C39 C177 C179 C181 C185	30pF	CAP CERAMIC 30pF 50V 5% C0G (NP0) 0402	KEMET	C0402C300J5GACTU	DIGIKEY	399-7785-1-ND	0402
9	1	C58	4.7uF	CAP CERAMIC 4.7uF 25V 10% X5R 0805	MURATA	GRM21BR61E475KA12L	DIGIKEY	490-3335-1-ND	0805
10	2	C68 C80	22uF	CAP CERAMIC 22uF 16V 20% X5R 0805	TDK CORPORATION	C2012X5R1C226M125AC	DIGIKEY	445-7647-1-ND	0805
11	6	C91 C94 C101 C113 C125 C126	1uF	CAP CERAMIC 1uF 16V 10% X5R 0402	TDK CORPORATION	C1005X5R1C105K	DIGIKEY	445-4978-1-ND	0402
12	4	C178 C180 C186 C187	2.2uF	CAP CERAMIC 2.2uF 16V 10% X5R 0402	TDK CORPORATION	C1005X5R1C225K050BC	DIGIKEY	445-9085-1-ND	0402
13	5	FB1 FB2 FB4 FB5 FB6	10E	IND FERRITE BEAD CHIP 10E SMD	TDK CORPORATION	HF70ACB201209	MOUSER	810-HF70ACB201209-T	SMD
14	2	J1 J2	CON RCAJACK3 RCJ-017	CON RCA JACK 3POS FEMALE ORG RT TH	CUI INC	RCJ-017	DIGIKEY	CP-1466-ND	THRU-HOLE
15	33	J3 J6 J7 J9 J10 J14 J15 J17 J18 J21 J22 J24 J25 J28 J29 J31 J32 J35 J36 J39 J40 J43 J44 J46 J47 J50 J51 J53 J54 J57 J58 J60 J68	HDR_2X1	CON HDR 2X1 2.54MM PITCH ST TH	MOLEX	22-03-2021	DIGIKEY	WM4000-ND	THRU-HOLE
16	16	J4 J8 J11 J16 J19 J23 J26 J30 J33 J38 J41 J45 J48 J52 J55 J59	HDR_3X2	CON HDR 3X2 2.54MM PITCH ST TH	MOLEX	10-89-1061	DIGIKEY	WM6806-ND	THRU-HOLE
17	12	J5 J13 J20 J27 J34 J42 J49 J56 J61 J62 J65 J66	CON AUDIOJACK4 SJ-3524-SMT	CON AUDIO JACK 4POS FEMALE RT SMD	CUI INC	SJ-3524-SMT-1	NA	NA	SMD
18	1	J37	HDR_16X2	CON HDR 16X2 2.54MM PITCH ST TH	MOLEX	10-89-7322	DIGIKEY	WM26832-ND	THRU-HOLE
19	1	J63	RECP_2X25	CON RECP 2X25 2.54MM PITCH ST TH	SAMTEC	SSW-125-21-L-D	NA	NA	THRU-HOLE
20	1	J64	RECP_2X50	CON RECP 2X50 2.54MM PITCH ST TH	SAMTEC	SSW-150-21-L-D	NA	NA	THRU-HOLE
21	16	JP1 JP2 JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP13 JP14 JP15 JP16	HDR_2X2	CON HDR 2X2 2.54MM PITCH ST TH	SAMTEC	TSW-102-07-T-D	DIGIKEY	SAM1034-02-ND	THRU-HOLE
22	1	L1	47uH	IND 47uH 170mA 10% 1210	MURATA	LQH32CN470K53L	DIGIKEY	490-4063-1-ND	1210
23	1	L2	1KE	CHOKE COMMON MODE 1KE 1.1A SMD	BOURNS	SRF0905-471Y	DIGIKEY	SRF0905-471YCT-ND	SMD
24	1	L3	2.2uH	IND 2.2uH 20% 1.3A SMD	TDK CORPORATION	VLS252012T-2R2M1R3	NA	NA	SMD
25	1	L4	2.2uH	IND POWER 2.2uH 1.7A 30% SMD	TDK CORPORATION	VLCF4020T-2R2N1R7	DIGIKEY	445-3182-1-ND	SMD
26	1	LD1	598-8110-107F	LED ALINGAP RED CLEAR 0805 SMD	DIALIGHT	598-8110-107F	DIGIKEY	350-2038-1-ND	0805
27	1	LD2	598-8170-107F	LED ALINGAP GREEN CLEAR 0805 SMD	DIALIGHT	598-8170-107F	DIGIKEY	350-2044-1-ND	0805
28	2	LD3 LD4	598-8130-107F	LED ALINGAP ORANGE CLEAR 0805 SMD	DIALIGHT	598-8130-107F	DIGIKEY	350-2040-1-ND	0805
29	1	LD5	598-8140-107F	LED ALINGAP YELLOW CLEAR 0805 SMD	DIALIGHT	598-8140-107F	DIGIKEY	350-2041-1-ND	0805
30	1	MOD1	PLR135/T10	MODULE FIBER OPTIC RECEIVER TH	EVERLIGHT ELECTRONICS	PLR135/T10	DIGIKEY	1080-1433-ND	THRU-HOLE
31	1	MOD2	JCJ1012D15	MODULE DC-DC CONVERTER +/-15V 10W TH	XP-POWER	JCJ1012D15	DIGIKEY	1470-1981-5-ND	THRU-HOLE
32	5	Q1 Q2 Q3 Q4 Q5	BSS138	IC MOSFET N-CHANNEL 50V 200mA SOT23-3	DIODES INC	BSS138-7-F	DIGIKEY	BSS138CT-ND	SOT23-3

33	48	R1 R7 R15 R16 R18 R20 R30 R39 R56 R60 R61 R63 R68 R79 R80 R81 R82 R84 R89 R95 R99 R100 R103 R105 R113 R122 R135 R143 R154 R156 R162 R173 R179 R186 R189 R194 R204 R210 R225 R226 R232 R236 R258 R268 R284 R295 R296 R298	10K_0.5%	RES 10K 1/16W 0.5% 0603	SUSUMU CO LTD	RR0816P-103-D	DIGIKEY	RR08P10.0KDCT-ND	0603
34	32	R2 R5 R21 R24 R32 R35 R64 R67 R69 R72 R85 R88 R90 R93 R106 R109 R117 R120 R157 R160 R163 R167 R195 R198 R205 R208 R237 R240 R261 R265 R299 R302	470E_0.5%	RES 470E 1/16W 0.5% 0603	SUSUMU CO LTD	RR0816P-471-D	DIGIKEY	RR08P470DCT-ND	0603
35	32	R3 R4 R22 R23 R33 R34 R65 R66 R70 R71 R86 R87 R91 R92 R107 R108 R118 R119 R158 R159 R164 R166 R196 R197 R206 R207 R238 R239 R262 R264 R300 R301	7.5K_0.5%	RES 7.5K 1/16W 0.5% 0603	SUSUMU CO LTD	RR0816P-752-D	DIGIKEY	RR08P7.5KDCT-ND	0603
36	16	R6 R19 R37 R62 R78 R83 R94 R104 R121 R155 R169 R191 R209 R234 R266 R297	47E_1%	RES 47E 1/5W 1% 0603	SUSUMU CO LTD	RL0816S-470-F	DIGIKEY	408-1388-1-ND	0603
37	1	R8	75E	RES 75E 1/16W 5% 0402	ROHM	MCR01MZPJ750	DIGIKEY	RHM75JCT-ND	0402
38	62	R9 R10 R26 R28 R31 R48 R49 R52 R57 R58 R59 R129 R130 R139 R146 R151 R168 R177 R178 R180 R181 R182 R183 R184 R190 R192 R193 R199 R200 R201 R202 R212 R213 R214 R215 R216 R217 R218 R220 R223 R224 R231 R233 R235 R241 R242 R243 R244 R245 R246 R247 R248 R249 R250 R252 R253 R254 R255 R256 R257 R260 R263	0K	RES 0K 1/16W 5% 0402	YAGEO	RC0402JR-070RL	DIGIKEY	311-0.0JRCT-ND	0402
39	1	R11	47K	RES 47K 1/16W 5% 0402	PANASONIC-ECG	ERJ-2GEJ473X	DIGIKEY	P47KJCT-ND	0402
40	1	R12	110E	RES 110E 1/16W 5% 0402	PANASONIC-ECG	ERJ-2GEJ111X	DIGIKEY	P110JCT-ND	0402
41	1	R13	2.2K	RES 2.2K 1/16W 5% 0402	PANASONIC-ECG	ERJ-2GEJ222X	DIGIKEY	P2.2KJCT-ND	0402
42	1	R14	220E	RES 220E 1/16W 5% 0402	PANASONIC-ECG	ERJ-2GEJ221X	DIGIKEY	P220JCT-ND	0402
43	52	R17 R27 R38 R40 R41 R42 R43 R47 R97 R98 R102 R110 R111 R114 R115 R116 R124 R125 R126 R134 R136 R140 R141 R147 R149 R152 R153 R165 R170 R171 R174 R175 R176 R185 R188 R203 R211 R219 R221 R222 R227 R228 R229 R230 R251 R267 R270 R273 R276 R283 R293 R294	10K	RES 10K 1/16W 5% 0402	YAGEO AMERICA	RC0402JR-0710KL	DIGIKEY	311-10KJRCT-ND	0402
44	1	R29	680E 0.1%	RES 680E 1/10W 0.1% 0603	SUSUMU CO LTD	RG1608P-681-B-T5	DIGIKEY	RG16P680BCT-ND	0603
45	4	R50 R53 R54 R55	33E	RES 33E 1/16W 5% 0402	NIC COMPONENTS	NRC04J330TRF	NA	NA	0402
46	1	R51	330E 1%	RES 330E 1/16W 1% 0402	YAGEO AMERICA	RC0402FR-07330RL	DIGIKEY	311-330LRCT-ND	0402
47	5	R73 R75 R76 R77 R303	100E	RES 100E 1/16W 5% 0402	PANASONIC-ECG	ERJ-2GEJ101X	DIGIKEY	P100JCT-ND	0402
48	1	R74	50E	RES 50E 1/16W 5% 0402	YAGEO	AC0402JR-0750RL	MOUSER	603-AC0402JR-0750RL	0402
49	10	R96 R101 R285 R286 R287 R288 R289 R290 R291 R292	100K	RES 100K 1/16W 5% 0402	VISHAY	CRCW0402100KJNED	DIGIKEY	541-100KJCT-ND	0402
50	1	R305	10K 1%	RES 10K 1/16W 1% 0402	YAGEO AMERICA	RC0402FR-0710KL	DIGIKEY	311-10.0KLRTR-ND	0402
51	2	SW1 SW3	EG-1218	SWITCH SLIDE SPST 30V TH	E-SWITCH	EG-1218	MOUSER	612-EG1218	THRU-HOLE
52	2	SW2 SW4	B3SL-1022P	TACTILE SWITCH SPST-NO SMD	OMRON	B3SL-1022P	DIGIKEY	SW1065CT-ND	SMD
53	8	U10 U15 U21 U24 U2 U30 U6 U7	OPA2134UA	IC OPAMP AUDIO SOIC8	TEXAS INSTRUMEN	OPA2134UA	DIGIKEY	OPA2134UA-ND	SOIC8
54	4	U3 U8 U12 U19	SN74LVC1G08	IC SINGLE 2-INPUT POSITIVE-AND GATE SC70-5	TEXAS INSTRUMEN	SN74LVC1G08DCKT			SC70-5
55	1	U4	DIR9001PW	IC 24-BIT AUDIO INTERFACE RECEIVER TSSOP2	TEXAS INSTRUMEN	DIR9001PW	DIGIKEY	296-21389-5-ND	TSSOP28
56	9	U5 U18 U20 U22 U23 U25 U26 U27 U32	SN74AVC4T245PW	IC 4-BIT DUAL SUPPLY BUS TRANSCEIVER TSSOP	TEXAS INSTRUMEN	SN74AVC4T245PW	MOUSER	595-SN74AVC4T245PW	TSSOP16
57	1	U9	TPS62173DSGT	IC REGULATOR BUCK STEP-DOWN DC-DC CONV	TEXAS INSTRUMEN	TPS62173DSGT	DIGIKEY	296-29866-1-ND	WSON8
58	1	U11	TPS62162DSGT	IC REGULATOR BUCK STEP-DOWN DC-DC CONV	TEXAS INSTRUMEN	TPS62162DSGT	DIGIKEY	296-29897-1-ND	WSON8
59	2	U13 U17	PCM1690IDCARQ1	IC 24-BIT 192-KHZ SAMPLING 8-CHANNEL D/A C	TEXAS INSTRUMEN	PCM1690IDCARQ1	DIGIKEY	296-29039-1-ND	HTSSOP48
60	2	U14 U16	SN74AVC8T245RHL	IC BUS TRANSCEIVER 8-BIT DUAL-SUPPLY QFN	TEXAS INSTRUMEN	SN74AVC8T245RHLR	DIGIKEY	296-17859-1-ND	QFN24
61	1	U1	SN74LVC2G14	IC DUAL SCHMITT-TRIGGER INVERTER SC70-6	TEXAS INSTRUMEN	SN74LVC2G14DCKR	DIGIKEY	296-13011-1-ND	SC70-6
62	2	U28 U29	PCM1865DBTR	IC ADC 4CH 110DB 12C/SPI WITH UNIVERSAL FR	TEXAS INSTRUMEN	PCM1865DBTR	DIGIKEY	296-40480-1-ND	TSSOP30
63	3	Y1 Y2 Y3	24.576MHz	CRY 24.576MHz 18pF SMD	ABRACON	ABM3C-24.576MHZ-D4Y-T	DIGIKEY	535-11295-1-ND	SMD
64	5	TP1 TP18 TP21 TP49 TP67	Test Point	TEST POINT PC MINI .040"D WHITE	Keystone	5002			THRU-HOLE
65	10			Screw #4-40 1/4in long zinc phillips	Bf Fastener	PMS 440 0025 PH			
66	5			Rubber Feet #4 screw hole size	Keystone	720			
67	5			ROUND STANDOFF 4-40 ALUM 1-1/2"	Keystone Electronics	3483			
68	32	J4 J8 J11 J16 J19 J23 J26 J30 J33 J38 J41 J45 J48 J52 J55 J59		SHUNT JUMPER Pitch 2.54mm					

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