

XC-6 USB Audio BOM 1V0

ITEM	QTY	REFDES	XMOS_PART_NUMBER	DESCRIPTION	MANUFACTURER	PART_NUMBER	PACKAGE	UNIT_COST (\$)	LINE_COST (\$)
1		5R1,R2,R10,R11,R22	E-01-0001	RES 1k 0603 1%	ROHM	MCR03EZPFX1001	0603	0.01	0.03
2	11	R3,R4,R12,R13,R14,R23,R24,RE	E-01-0002	RES 10k 0603 1%	ROHM	MCR03EZPFX1002	0603	0.01	0.06
3		3R5,R26,R27	E-01-0008	RES 33R 0603 1%	ROHM	MCR03EZPFX33R0	0603	0.01	0.02
4		1R38	E-01-0018	RES 2.7k 0603 1%	ROHM	MCR03EZPFX2701	0603	0.01	0.01
5		1R18	E-01-0019	RES 4.7R 0603 1%	ROHM	MCR03EZPJ4R7	0603	0	0
6		2R39,R40	E-01-0021	RES 4.7k 0603 1%	ROHM	MCR03EZPFX4701	0603	0.01	0.01
7		4R28,R29,R41,R42	E-01-0022	RES 470R 0603 1%	ROHM	MCR03EZPFX4700	0603	0.01	0.02
8		1R30	E-01-0030	RES 1R 0603 1%	ROHM	MCR03EZPJ1R0	0603	0	0
9		1R6	E-01-0033	RES 8k06 0603 1%	ROHM	MCR03EZPFX8061	0603	0.01	0.01
10		3R19,R20,R21	E-01-0035	RES 2.2M 0603 5%	ROHM	MCR03EZPJ225	0603	0	0.01
11		2R7,R31	E-01-0037	RES 6.8k 0603 1%	ROHM	MCR03EZPFX6801	0603	0.01	0.01
12		2R32,R33	E-01-0038	RES 3.3k 0603 1%	ROHM	MCR03EZPFX3301	0603	0.01	0.01
13		3R8,R9,R34	E-01-0039	RES 47k 0603 1%	ROHM	MCR03EZPFX4702	0603	0.01	0.02
14		1C8	E-02-0007	MLCC 10uF 0805 X5R 10V	Murata	GRM21BR61A106KE19	0805	0.06	0.06
15		2C49,C50	E-02-0013	MLCC 2.2nF 0603 COG 50V	Murata	GRM1885C1H222JA01	0603	0.02	0.04
16	27	C1,C2,C9,C10,C11,C12,C13,C1E	E-02-0017	MLCC 100nF 0603 X7R 16V	Murata	GRM188R71C104KA01	0603	0.01	0.19
17		6C32,C33,C34,C35,C36,C37	E-02-0018	MLCC 33pF 0603 COG 50V	Murata	GRM1885C1H330JA01	0603	0.01	0.04
18		2C26,C27	E-02-0019	MLCC 2.2uF 0603 X5R 10V	Murata	GRM188R61A225KE34	0603	0.03	0.06
19		1C56	E-02-0019	MLCC 2.2uF 0603 X5R 10V	Murata	GRM188R61A225ME34	0603	0.03	0.03
20		2C3,C28	E-02-0020	MLCC 1uF 0603 X5R 10V	Murata	GRM188R61A105KA61	0603	0.01	0.02
21		2C4,C38	E-02-0021	MLCC 4.7uF 0805 X5R 10V	Murata	GRM219R61A475KE34	0805	0.05	0.1
22		1C5	E-02-0022	MLCC 10nF 0603 X7R 50V	Murata	GRM188R71H103KA01	0603	0.01	0.01
23		1C6	E-02-0023	MLCC 330pF 0603 COG 50V	Murata	GRM1885C1H331JA01	0603	0.01	0.01
24		1C7	E-02-0025	MLCC 1nF 0603 X7R 50V	Murata	GRM188R71H102KA01	0603	0.01	0.01
25		6C39,C40,C41,C42,C43,C44	E-02-0026	Al Elec 10uF CaseB 25V	Panasonic	EEEFK1E100R	AL_ELEC_SMD_B	0.08	0.46
26		2C45,C46	E-02-0027	MLCC 220pF 0603 COG 50V	Murata	GRM1885C1H221JA01	0603	0.01	0.02
27		1C47	E-02-0028	MLCC 100pF 0603 COG 50V	Murata	GRM1885C1H101JA01	0603	0.01	0.01
28		1C48	E-02-0031	Al Elec 47uF 16V CaseC SMD	Panasonic	EEEFK1C470UR	AL_ELEC_SMD_C	0.09	0.09
29		1U4	E-03-0004	Memory, Flash, SPI, 1Mb (128Kx8), SOIC-8	Atmel	AT25FS010N-SH27	SOIC8	0.38	0.38
30		1J2	E-04-0013	Optical Digital Audio Transmitter, 96kHz capable, 3.3V	Toshiba	TOTX147PL	OPT_IO_TOXX147PL	0.84	0.84
31		1J3	E-04-0018	USB Series B Receptacle, Through Hole	Lumberg	2411 02	USB_B	0.35	0.35
32		1J4	E-04-0022	IDC Boxed Header, Right Angle, PCB Mount, Polarised, 20 Way, 2x10, 0.1" Pitch	Sullins	SBH11-PBPC-D10-RA-BK	IDC_HEADER_RA_20PIN	0.31	0.31
33		2J5,J6	E-04-0023	TRS jack, 3.5mm, SMD	CUI	SJ-3523-SMT	TRS_JACK_SJ3523	0.45	0.9
34		1U5	E-05-0005	Voltage regulator, LDO, Fixed, 1.8V, 150mA	ON Semiconductor	NCP699SN18T1G	SOT23_5	0.12	0.12
35		1U6	E-05-0006	Voltage regulator, LDO, Fixed, 3.3V, 150mA	ON Semiconductor	NCP699SN33T1G	SOT23_5	0.12	0.12
36		1U7	E-05-0007	DC-DC Converter, 1.5MHz, 600mA	ON Semiconductor	NCP1521BSNT1G	SOT23_5	0.53	0.53
37		1U14	E-05-0009	Voltage regulator, LDO, Adjustable, 200mA	Texas Instruments	TPS73001DBV	SOT23_6	0.23	0.23
38		1X1	E-07-0005	Crystal, 13MHz, HC49/US SMD, Fundamental, 18pF, Tol. ±30ppm, Stab. ±30ppm	Abrakon	ABLS2-13.000MHz-D4Y	XTAL_HC49US_SMD	0.23	0.23
39		1X2	E-07-0008	Crystal, 24.576MHz, HC49/US, Fundamental, 18pF, Tol. ±30ppm, Stab. ±50ppm	Citizen	HC49US24.576MABJ	XTAL_HC49	0.25	0.25
40		1X3	E-07-0009	Crystal, 11.2896MHz, HC49/US, Fundamental, 18pF, Tol. ±30ppm, Stab. ±50ppm	Citizen	HC49US11.2896MABJ	XTAL_HC49	0.25	0.25
41		2FB1,FB2	E-08-0002	Ferrite Bead, 330R AT 100MHz, 0603, 1.7A	Murata	BLM18KG331SN1	0603	0.03	0.06
42		1L1	E-09-0004	Power Inductor, 2.2uH, 0.7A, 260mR DCR	Taiyo Yuden	CBC2016T2R2M	TAIYO_2016	0.08	0.08
43		3Q1,Q2,Q3	E-10-0001	MOSFET, N-Channel, Logic Level, 50V, 220mA	Fairchild	BSS138	SOT23	0.05	0.15
44		3D3,LEDA,LEDB	E-12-0001	LED, GREEN, 0603	Kingbright	APT1608CGCK	0603_LED	0.05	0.15
45		1U1	E-13-0005	Single D-Type Flip-Flop, UHS Series, SC70	Fairchild	NC7SZ175P6X	SC70_6	0.07	0.07
46		1U11	E-13-0009	2-Input Multiplexer, UHS Series, SC70	Fairchild	NC7SZ157P6X	SC70_6	0.07	0.07
47		1U12	E-13-0015	Dual Logic Buffer, Schmitt Trigger, UHS Series, SC70	Fairchild	NC7WZ17P6X	SC70_6	0.07	0.07
48		1U8	E-13-0019	Voltage Detector, Programmable Delay, SOT23-5	ON Semiconductor	NCP303LSN09T1G	SOT23_5	0.15	0.15
49		1U2	E-13-0020	USB 2.0 Transceiver, ULPI, 13MHz Ref, QFN24	SMSC	USB3318C-CP	QFN24_SMSC	1	1
50		1U9	E-13-0021	Unbuffered Inverter, UHS Series, SOT-23-5	Fairchild	NC7SZU04M5X	SOT23_5	0.06	0.06
51		1U13	E-13-0022	Audio CODEC, 2 In, 2 Out, 24Bit, 192kHz, TSSOP24	Cirrus Logic	CS4270-CZZ	TSSOP24	3	3
52		1U10	E-13-0023	Dual Unbuffered Inverter, UHS Series, SC70	Fairchild	NC7WZU04P6X	SC70_6	0.08	0.08
53		2MECH1,MECH2	E-14-0004	HC49 Crystal Insulator, 2 Pin	Bivar	CI-192-028	NA	0.03	0.06
54		2SWA,SWB	E-16-0003	Tactile Switch, Momentary, SMD, J Bend	C&K	KSC421J 70SH LFS	SW_PB_KSC_JBEND	0.27	0.54

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Total 11.36

55 1U3 E-11-0004 XMOS XS1-L1 Processor, 128TQFP XMOS XS1-L01A-TQ128-C4 TQFP128_XMOS Contact XMOS (www.xmos.com)

NOTE: Prices based on 1k units, Digi-Key