

XR-USB-AUDIO-2.0-MC-1v2-B0M

ITEM	QTY	REFDES	XMOS_PART_NUMBER	DESCRIPTION	MANUFACTURER	PART_NUMBER	PACKAGE
1	17	R2,R16,R17,R28,R30,R68,R86,R91,R92,R93,R94,R95,R96,R97,R98,R100,R103	E-01-0001	RES 1k 0603 1%	ROHM	MCR03E2PFX1001	603
2	16	R3,R18,R19,R20,R21,R22,R23,R24,R26,R69,R70,R80,R101,R104,R105,R109	E-01-0002	RES 10k 0603 1%	ROHM	MCR03E2PFX1002	603
3	12	R4,R25,R29,R31,R71,R72,R73,R74,R87,R88,R89,R90	E-01-0008	RES 13R 0603 1%	ROHM	MCR03E2PFX33R0	603
4	1	R83	E-01-0011	RES 1.5k 0603 1%	ROHM	MCR03E2PFX1501	603
5	1	R7	E-01-0012	RES OR 0603 1%	ROHM	MCR03E2P000	603
6	3	R75,R99,R102	E-01-0013	RES 0603 No Fit	NA		603
7	20	R32,R33,R34,R35,R36,R37,R38,R39,R40,R41,R42,R43,R44,R45,R46,R47,R48,R49,R63,R64	E-01-0021	RES 4.7k 0603 1%	ROHM	MCR03E2PFX4701	603
8	14	R50,R51,R52,R53,R54,R55,R56,R57,R65,R66,R84,R106,R107,R108	E-01-0022	RES 470R 0603 1%	ROHM	MCR03E2PFX4700	603
9	1	R8	E-01-0023	RES 107R 0603 1%	ROHM	MCR03E2PFX1070	603
10	1	R9	E-01-0024	RES 232R 0603 1%	ROHM	MCR03E2PFX2320	603
11	1	R85	E-01-0025	RES 75R 0603 1%	ROHM	MCR03E2PFX75R0	603
12	7	R10,R11,R12,R13,R14,R15,R58	E-01-0026	RES 20k 0603 1%	ROHM	MCR03E2PFX2002	603
13	1	R59	E-01-0027	RES 2k2 0603 1%	ROHM	MCR03E2PFX2011	603
14	1	R1	E-01-0030	RES 1R 0603 1%	ROHM	MCR03E2P1R0	603
15	1	R60	E-01-0031	RES 200k 0603 1%	ROHM	MCR03E2PFX2003	603
16	2	R61,R62	E-01-0032	RES 100k 0603 1%	ROHM	MCR03E2PFX1003	603
17	1	R67	E-01-0033	RES 80k 0603 1%	ROHM	MCR03E2PFX80k1	603
18	1	R76	E-01-0035	RES 2.2M 0603 5%	ROHM	MCR03E2P225	603
19	2	R78,R81	E-01-0037	RES 6.8k 0603 1%	ROHM	MCR03E2PFX6801	603
20	1	R79	E-01-0039	RES 47k 0603 1%	ROHM	MCR03E2PFX4702	603
21	1	R82	E-01-0044	RES 2.2k 0603 1%	ROHM	MCR03E2P22	603
22	1	R27	E-01-0046	RES 4.3k 0603 1%	ROHM	MCR03E2PFX4301	603
23	1	R77	E-01-0049	RES 1.8k 0603 1%	ROHM	MCR03E2PFX1801	603
24	1	R5	E-01-0081	RES 91R 0603 1%	ROHM	MCR03E2PFX91R0	603
25	1	R6	E-01-0088	RES 820R 0603 1%	ROHM	MCR03E2PFX8200	603
26	19	C14,C15,C16,C17,C18,C22,C23,C24,C84,C85,C86,C87,C88,C89,C90,C91,C102,C103,C104	E-02-0002	MLCC 100Hf 0402 X7R 16V	Murata	GRM155R71C104KAB8	402
27	5	C25,C26,C93,C94,C95	E-02-0005	MLCC 4.7uF 0603 X5R 6.3V	Murata	GRM188R60J475K19	603
28	4	C92,C96,C97,C112	E-02-0007	MLCC 10uF 0805 X5R 10V	Murata	GRM218R61A106K19	805
29	16	C27,C28,C29,C30,C31,C32,C33,C34,C35,C36,C37,C38,C39,C40,C66,C67 C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C6	E-02-0013	MLCC 2.2nF 0603 COG 50V	Murata	GRM1885C1H22J1A01	603
30	25	8,C69,C70,C71,C72	E-02-0014	Al Elec. 4.7uF CaseB 35V	Panasonic	EEEFK1V4R7R	AL_ELEC_SMD_B
31	4	C61,C62,C63,C64	E-02-0015	Al Elec. 100uF CaseD 16V	Panasonic	EEEFK1C101P	AL_ELEC_SMD_D
32	29	C108,C109,C113,C118,C119	E-02-0017	MLCC 100Hf 0803 X7R 16V	Murata	GRM188R71C104KA01	603
33	3	C11,C98,C99	E-02-0018	MLCC 33pF 0603 COG 50V	Murata	GRM1885C1H330A01	603
34	1	C80	E-02-0019	MLCC 2.2uF 0603 X5R 10V	Murata	GRM188R61A225K34	603
35	1	C110	E-02-0019	MLCC 2.2uF 0603 X5R 10V	Murata	GRM188R61A225ME34	603
36	3	C13,C73,C81	E-02-0020	MLCC 1uF 0603 X5R 10V	Murata	GRM188R61A050A61	603
37	1	C107	E-02-0021	MLCC 4.7uF 0805 X5R 10V	Murata	GRM218R61A475K34	805
38	2	C74,C111	E-02-0022	MLCC 10Hf 0603 X7R 50V	Murata	GRM188R71H103KA01	603
39	1	C82	E-02-0023	MLCC 330pF 0603 COG 50V	Murata	GRM1885C1H33J1A01	603
40	1	C108	E-02-0028	MLCC 100Hf 0603 COG 50V	Murata	GRM1885C1H101A01	603
41	1	C114	E-02-0034	MLCC 47pF 0603 COG 50V	Murata	GRM1885C1H470A01	603
42	1	C105	E-02-0044	MLCC 22pF 0603 COG 50V	Murata	GRM1885C1H220A01	603
43	1	U10	E-03-0002	Memory, Flash, SPI, 4Mb (2Kx256), SOIC-B	Atmel	AT25DF041A-SH	SOIC8
44	1	J1	E-04-0006	DC Power Jack, SMD, 3.5mm OD, 1.35mm ID	CUI	PI-0412-SMT	PWR JACK_SMD_35
45	8	J6,J7,J8,J9,J10,J11,J12,J13	E-04-0008	TRS Jack, 3.5mm, Switch, SMD	CUI	SI-3524-SMT	TRS JACK_S1524
46	2	J2,J3	E-04-0011	RCA Jack, Right Angle, Through Hole	CUI	RCJ-014	RCA JACK_RCJ_014
47	1	J4	E-04-0012	Optical Digital Audio Receiver, 96kHz capable, 3.3V	Toshiba	TORX147PL	OPT_IO_TOXX147PL
48	1	J5	E-04-0013	Optical Digital Audio Transmitter, 96kHz capable, 3.3V	Toshiba	TOTX147PL	OPT_IO_TOXX147PL
49	1	J18	E-04-0014	D-Subminiature Connector, 15 pin, Female, Right Angle, EURO Footprint	ITT Cannon	Z9P155-1AKN/146	DA15H_EURO
50	1	J19	E-04-0015	IDC Header, Right Angle, PCB Mount, Polarized, 16 Way, 2x8, 0.1" Pitch	Sullins	SBH11-PBPC-008-RA-BX	IDC_HEADER_RA_16PIN
51	1	J14	E-04-0016	TRS Jack, 1/4", Switch, Through Hole	Lumberg	KLBR53	TRS JACK_KLBR53
52	1	J15	E-04-0018	USB Series B Receptacle, Through Hole	Lumberg	2411 02	USB_B
53	1	J16	E-04-0021	IDC Bowed Header, Right Angle, PCB Mount, Polarized, 20 Way, 2x10, 0.1" Pitch	Sullins	SBH11-PBPC-010-RA-BK	IDC_HEADER_RA_20PIN
54	1	J17	E-04-0026	BNC Jack, Right Angle, Through Hole	Tyco	5-1634513-1	BNC JACK_RA_A
55	1	U11	E-05-0005	Voltage regulator, LDO, Fixed, 1.8V, 150mA	ON Semiconductor	NCP695N18T1G	SOT23_5
56	1	U14	E-05-0007	DC-DC Converter, 1.5MHz, 600mA	ON Semiconductor	NCP1521BSNT1G	SOT23_5
57	1	U21	E-05-0009	Voltage regulator, LDO, Adjustable, 200mA	Texas Instruments	TPS73010B	SOT23_5
58	1	U15	E-05-0012	DC-DC Converter, 1.3MHz, 1.5A	Fairchild Semiconductor	FAN2012MPX	DFNE_FAN2013
59	1	U7	E-06-0004	Dual Audio Op-amp	National Semiconductor	LMV722M	SOIC8
60	1	U6	E-06-0005	Stereo Headphone Amplifier	Texas Instruments	THA152D	SOIC8
61	1	X1	E-07-0005	Crystal, 13MHz, HC49/US SMD, Fundamental, 18pF, Tol. ±30ppm, Stab. ±30ppm	Abracon	ABS2-13.000MHz-D4Y	XTAL_HC49US_SMD
62	3	F81,F83,F84	E-08-0001	Ferrite Bead, 470H AT 100MHz, 0603, 0.5A	Murata	BLM18EG475N1	603
63	2	F82,F85	E-08-0002	Ferrite Bead, 330R AT 100MHz, 0603, 1.7A	Murata	BLM18G3315N1	603
64	1	T1	E-09-0003	Transformer, Digital Audio, SMD	Murata	DA1022MC	TRANSFORMER_DA1022MC
65	1	L1	E-09-0004	Power Inductor, 2.2uH, 0.7A, 260mR DCR	Taiyo Yuden	CB2C016T2R2M	TAIYO_2016
66	1	L2	E-09-0008	Power Inductor, 3.3uH, 1.7A, 28mR DCR	Murata	LQH44PNR3R0P0	MURATA_LQH44P
67	1	O1	E-10-0002	MOSFET, P-Channel, Logic Level, 20V, 2.4A, SOT23	ON Semiconductor	NTR4101PT1G	SOT23
68	1	O1	E-10-0006	Unidirectional Transient Protection Diode, 5V Stand-Off, 600W, SMB	STMicroelectronics	SMBJ5.0A	SMB
69	2	D2,D3	E-10-0007	Schottky Diode, 20V, 1A, SOD123LF	ON Semiconductor	MBR120VLSFT	SOD123LF
70	1	O4	E-10-0008	Dual Diode, 300V, 0.2A, Series Configuration, SOT23	NXP	BAV99	SOT23
71	1	O16	E-10-0017	High Frequency ESD Protection Diode, 24V Stand-Off, 0.25pF, 0603	Tyco	PESD0603-240	0603_LED
72	1	U9	E-11-0009	XMOS X51-L2 Processor, 124QFN, 500MHz	XMOS	X51-L02A-QF124-C5	QFN124_XMOS
73	11	O5,O6,O7,D8,D9,D10,D11,D12,D13,D14,D15	E-12-0001	LED, GREEN, 0603	Kingbright	APT1608GCK	0603_LED
74	1	U3	E-13-0002	Audio Codec, 6 in, 8 Out, 24Bit, 192kHz, 64QFP	Cirrus Logic	CS2048-64QFP	QFP64
75	2	U1,U124	E-13-0005	Single D-Type Flip-Flop, UHS Series, SC70	Fairchild	NC7S2175P6X	SC70_6
76	2	U4,U5	E-13-0006	Logic Buffer, Tri-State, UHS Series, SC70	Fairchild	NC7S2125P5X	SC70_5
77	1	U16	E-13-0008	Fractional-N Clock Multiplier, MSOP10	Cirrus Logic	CS2300-CP	MSOP10
78	1	U17	E-13-0009	2-Input Multiplexer, UHS Series, SC70	Fairchild	NC7S2157P6X	SC70_6
79	1	U20	E-13-0012	Dual Logic Buffer, 3-State, HCT Series, SOIC14	ON Semiconductor	74HC125D	SOIC14
80	1	U18	E-13-0014	Triple Logic Buffer, UHS Series, USB	Fairchild	NC7V234K8X	USB
81	2	U2,U19	E-13-0015	Dual Logic Buffer, Schmitt Trigger, UHS Series, SC70	Fairchild	NC7V217P6X	SC70_6
82	1	U23	E-13-0019	Voltage Detector, 0.9V, Programmable Delay, SOT23-5	ON Semiconductor	NC9303LSN09T1G	SOT23_5
83	1	U8	E-13-0020	USB 2.0 Transceiver, LLP, 1.3MHz Ref, QFN24	ON Semiconductor	USB2L18C-CP	QFN24_SMSC
84	1	U12	E-13-0021	Unbuffered Inverter, UHS Series, SOT23-5	Fairchild	NC7S2U04MSX	SOT23_5
85	1	U22	E-13-0025	Voltage Detector, 3.0V, Programmable Delay, SOT23-5	ON Semiconductor	NC9303LSN30T1G	SOT23_5
86	1	U13	E-13-0026	Dual Logic Buffer, Open Drain Output, UHS Series, SC70	Fairchild	NC7W207P6X	SC70_6
87	1	U25	E-13-0051	High Speed Differential Receiver, UHS Series, 3.3V, SOT23-5	Fairchild	FH1802M5	SOT23_5
88	4	MTH1,MTH2,MTH3,MTH4	E-14-0001	Mounting Hole, Plated, for M3 Screw, 7mm Dia	NA	NA	MTG_PTH_M3
89	1	MECH1	E-14-0005	Round Switch Cap, For 0.11" Square Plunger, Black	CRK	G003A	NA
90	1	JP1	E-15-0002	Jumper, 2 Pin, 0.1" Pitch, THT	NA	NA	HEADER_2PIN
		TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19					
		TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,TP33,TP34,TP35,TP3					
		6,TP37,TP38,TP41,TP42,TP43,TP44,TP45,TP46,TP47,TP48,TP49,TP50,TP51,TP52,TP53,TP54,TP					
91	57	S5,TP56,TP57,TP58,TP59	E-15-0003	Through Hole Testpoint	NA	NA	PIN_HOLE
92	6	FM1,FM2,FM3,FM4,FM5,FM6	E-15-0004	Fiducial, 1.5mm dia, 3mm leagout	NA	NA	FIDUCIAL_15_30
93	1	SW1	E-16-0004	Latching Pushbutton Switch, SPDT, RA, THT	CRK	PN125HNA030E	SW_PB_RA_RA_SPDT
94	1	F1	E-17-0007	Polyswitch Resettable Fuse, nanoSMD, 0.75A, 6V	Tyco Electronics	NANOSMDC075F	1206