

Bill of Materials (BOM) - Audio Synthesizer v1

Item #	Qty	Ref Des	Description	Package	Type
1	4	C101, C105, C301, C501	0.1uF	"0603"	SMT
2	3	C102, C104, C302	0.01uF	"0603"	SMT
3	2	C103, C106	18pF	"0603"	SMT
4	1	C303	1.5uF	"0603"	SMT
5	2	C304, C305	1uF	"0603"	SMT
6	1	C306	100 uF	Electrolytic	Thru-hole
7	2	C701, C702	10uF	"0603"	SMT
8	4	D101, D102, D103, D701	Standard LED - SMD Hyper Red	"0603"	SMT
9	1	X101	12.000MHz Crystal	HC-49/US	SMT
10	6	F201, F202, F203, F204, F205, F206	PTC Resettable Fuses .05A 30V 10A IMAX	"1012"	SMT
11	1	F701	PTC Resettable Fuses PPTC 1812 16V 0.5A SMD	"1812"	SMT
12	1	U501	EEPROM SERIAL EEPROM 128K (16K x 8) 2WIRE 1.7V	8-SOIC	SMT
13	1	U701	3v3 Low Dropout Regulator	TIP/Tube	Thru-hole
14	13	TP101, TP102, TP103, TP301, TP302, TP303, TP304, TP305, TP306, TP501, TP502, TP701, TP702	TEST POINT PC MINI .040"D BLACK	Header	Thru-hole
15	1	U101	ARM Microcontroller - LPC1114FHN33 MCU 32b 32K Flash 42I/O	LQFP-48	SMT
16	1	Q401	MOSFET N-CH SGL 60V	SOT-23	SMT
17	3	R101, R102, R103	1/16WATT 1.5KOHMS	"0603"	SMT
18	1	R301	100KOHMS Potentiometer	Potentiometer	SMT
19	2	R302, R303	1/16WATT 100KOHMS	"0603"	SMT
20	1	R304	1/10 WATT 150OHMS	"0603"	SMT
21	1	R401	1/10 WATT 22K OHMS	"0603"	SMT
22	2	R501, R502	1/16WATT 2.2KOHMS	"0603"	SMT
23	1	R701	1/16WATT 1.5KOHMS	"0603"	SMT
24	1	R702	0.33 WATT 0.0 OHM	"0603"	SMT
25	1	U301	Digital to Analog Converters - DAC Sgl 12-bit SPI int	8-SOIC	SMT
26	1	U302	LM4875 Audio Amplifier	8-SOIC	SMT
27	1	LCD0	ELECTRONIC ASSEMBLY LCD Graphic Disply	-	Panel Mount
28	1	J301	Phone Connectors PHONE 3.5mm MONO	-	Panel Mount
29	1	J701	DC Power Connectors 2.1MM POWER JACK	-	Panel Mount