

Cantaloupe Radio Project - MDeck BA-2 rev9 BOM

Item	Qty	Type	Package	Part Designators	Value	Description	Manufacturer Name	Manufacturer Part #	Digikey Part #	Layer
1	4	SMD	0805	C5, C11, C13, C15	0.1uF	CAP CER 0.1UF 50V Y5V 0805	Samsung Electro-Mechanics	CL21F104ZBCNNNC	1276-1007-1-ND	Top
2	15	SMD	0805	C2, C3, C4, C6, C8, C21, C23, C27, C28, C29, C30, C31, C35, C36, C37	1uF	CAP CER 1UF 16V X7R 0805	Samsung Electro-Mechanics	CL21B105KOFNNNE	1276-1026-1-ND	Top
3	4	SMD	0805	C10, C12, C14, C20	2.2uF	CAP CER 2.2UF 10V X7R 0805	Samsung Electro-Mechanics	CL21B225KPFNNNE	1276-1188-1-ND	Top
4	4	SMD	0805	C7, C9, C32, C33	4.7uF	CAP CER 4.7UF 6.3V X5R 0805	Samsung Electro-Mechanics	CL21A475KQFNNNE	1276-1198-1-ND	Top
5	4	SMD	0805	C1, C16, C17, C19	10uF	CAP CER 10UF 10V X5R 0805	Samsung Electro-Mechanics	CL21A106KPFNNNE	1276-1052-1-ND	Top
6	2	TH	Header	J1, J3		CONN HEADER PH SIDE 5POS 2MM	JST Sales America Inc.	S5B-PH-K-S(LF)(SN)	455-1722-ND	J1=Top, J3=Bottom
7	1	TH	Header	J10		CONN HEADER PH TOP 4POS 2MM	JST Sales America Inc.	B4B-PH-K-S(LF)(SN)	455-1706-ND	Top
8	1	TH	Connector	J12		CONN FFC TOP 18POS 1.25MM R/A	Molex LLC	39532184	WM12723-ND	Top
9	2	TH	Header	J2, J4		CONN HEADER PH TOP 5POS 2MM	JST Sales America Inc.	B5B-PH-K-S(LF)(SN)	455-1707-ND	Top
10	1	TH	Header	J5		CONN HEADER PH SIDE 8POS 2MM	JST Sales America Inc.	S8B-PH-K-S(LF)(SN)	455-1725-ND	Bottom
11	1	TH	Header	J6		CONN HEADER PH TOP 8POS 2MM	JST Sales America Inc.	B8B-PH-K-S(LF)(SN)	455-1710-ND	Top
12	1	TH	Header	J9		CONN HEADER PH TOP 3POS 2MM	JST Sales America Inc.	B3B-PH-K-S(LF)(SN)	455-1705-ND	Top
13	3	TH	Terminal	M1, M2, M3		TERM SCREW 4-40 4 PIN PCB RA	Keystone Electronics	7773	36-7773-ND	Bottom
14	2	SMD	SOT363	Q1, Q4		MOSFET 2N-CH 60V 0.3A	Toshiba Semiconductor and Storage	SSM6N7002KFU,LF	SSM6N7002KFULFCT-ND	Top
15	1	SMD	SOT363	Q2		MOSFET N/P-CH 20V SC70-6	ON Semiconductor	FDG6332C-F085	FDG6332C-F085FSCT-ND	Top
16	1	SMD	S008	Q3		MOSFET 2P-CH 30V 3.9A 8SO	Diodes Incorporated	DMP3085LSD-13	DMP3085LSD-13DICT-ND	Top
17	1	SMD	2010	R11	220R	RES 220 OHM 5% 3/4W 2010	Stackpole Electronics Inc.	RMCF2010JT220R	RMCF2010JT220RCT-ND	Top
18	1	SMD	0805	R33	220R	RES SMD 220 OHM 5% 1/8W 0805	Bourns Inc.	CR0805-JW-221ELF	CR0805-JW-221ELFCT-ND	Top
19	5	SMD	0805	R5, R7, R17, R19, R22	1k	RES 1K OHM 1% 1/8W 0805	Stackpole Electronics Inc.	RMCF0805FT1K00	RMCF0805FT1K00CT-ND	Top
20	4	SMD	0805	R4, R6, R8, R23	2k	RES 2K OHM 1% 1/8W 0805	Stackpole Electronics Inc.	RMCF0805FT2K00	RMCF0805FT2K00CT-ND	Top
21	18	SMD	0805	R1, R2, R3, R9, R10, R12, R16, R18, R20, R21, R24, R25, R26, R27, R29, R30, R31, R32	10k	RES SMD 10K OHM 1% 1/8W 0805	Yageo	RC0805FR-0710KL	311-10.0KCRCT-ND	Top
22	2	SMD	0805	R28, R34	100k	RES 100K OHM 5% 1/8W 0805	Stackpole Electronics Inc.	RMCF0805JT100K	RMCF0805JT100KCT-ND	Top
23	1	SMD	SOT223	U1		IC REG LINEAR 5V 1.2A SOT223	STMicroelectronics	LDL1117S50R	497-17240-1-ND	Top
24	1	SMD	SOT23-5	U2		IC REG LINEAR 3.3V 150MA SOT23-5	Microchip Technology	MIC5317-3.3YM5-TR	MIC5317-3.3YM5-CT-ND	Top
25	1	SMD	QFN32	U3		IC STEREO CODEC 24BIT 32QFN	AKM Semiconductor Inc.	AK4951EN	974-1064-1-ND	Top
26	1	SMD	SOT23-5	U4		IC REG LINEAR 3.3V 250MA SOT23-5	STMicroelectronics	LDLN025M33R	497-17777-1-ND	Top
27	1	SMD	SOT23-5	U5		IC REG LINEAR 1.8V 150MA SOT23-5	Microchip Technology	MIC5317-1.8YM5-TR	MIC5317-1.8YM5-CT-ND	Top
28	1	SMD	Module	U6		RF TXRX MOD BLUETOOTH TRACE ANT	Microchip Technology	BM64SPKS1MC2-0001AA	BM64SPKS1MC2-0001AA-ND	Top
29	1	SMD	TQFP44	U7		IC MCU 8BIT 56KB FLASH 44TQFP	Microchip Technology	PIC16F18877-I/PT	PIC16F18877-I/PT-ND	Top