

OSO-BOWI-A1-06

References	Qty	Description	MPN	Digikey
R1 R2	2	RES 1K OHM 1% 1/4W 0805	RNCP0805FTD1K00	RNCP0805FTD1K00CT-ND
R3 R4 R6 R7 R10 R11 R12 R13	8	RES 10K OHM 1% 1/4W 0805	RNCP0805FTD10K0	RNCP0805FTD10K0CT-ND
R5	1	RES 0.47 OHM 1% 1/3W 0805	RL1220S-R47-F	RL12S.47FCT-ND
R8 R9	2	RES 100 OHM 1% 1/4W 0805	RNCP0805FTD100R	RNCP0805FTD100RCT-ND
C1 C2	2	CAP CER 10UF 10V X5R 0805	CL21A106KPFNNE	1276-1052-1-ND
C3 C4 C5 C7 C8 C10 C11 C12 C13 C14 C15 C16	12	CAP CER 1UF 25V X7R 0805	CL21B105KAFNNNE	1276-1066-1-ND
C6	1	CAP CER 100UF 6.3V X5R 1210	JMK325ABJ107MM-P	587-4313-1-ND
C9	1	CAP CER 4.7UF 25V X7R 0805	TMK212AB7475KG-T	587-2990-1-ND
FB1 FB2	2	FERRITE BEAD 1 KOHM 0805 1LN	MMZ2012R102AT000	445-1555-1-ND
D1 D2	2	DIODE ZENER 3.6V 500MW SOD123	MMSZ4685-TP	MMSZ4685-TPMSCT-ND
D3 D4 D5	3	DIODE SCHOTTKY 30V 500MA SOD123	MBR0530T1G	MBR0530T1GOSCT-ND
L1	1	FIXED IND 10UH 1.3A 170 MOHM SMD	IFSC1515AHER100M01	541-1406-1-ND
Q1	1	MOSFET N-CH 100V 1.6A SOT-23-3	IRLML0100TRPBF	IRLML0100TRPBFCT-ND
IC1	1	IC I/O EXPANDER I2C 8B 18SOIC	MCP23008T-E/SO	MCP23008T-E/SOCT-ND
IC2	1	IC SRAM 256K SPI 20MHZ 8SOIC	23K256-I/SN	23K256-I/SN-ND
IC3	1	NOR FLASH	GD25Q16CTIGR	1970-1010-1-ND
BTN_LOCK BTN_RESET	2	SWITCH TACTILE SPST-NO 0.05A 50V	KSS231GLFS	401-1098-1-ND
Optional: DNP_NEXT_ALT DNP_PREV_ALT	2	SWITCH TACTILE SPST-NO 0.05A 12V	TL3330AF130QG	EG4388CT-ND
MICROSD	1	CONN MICRO SD CARD PUSH-PUSH R/A	693071010811	732-3819-1-ND
J1	1	CONN JACK 4COND 3.5MM SMD R/A	SJ-43514-SMT-TR	CP-43514SJCT-ND
I2C	1	CONN HEADER SMD R/A 4POS 2MM	S4B-PH-SM4-TB(LF)(SN)	455-1751-1-ND
A1_PORT A2_PORT	2	CONN HEADER SMD R/A 3POS 2MM	S3B-PH-SM4-TB(LF)(SN)	455-1750-1-ND
Top feather header	1	CONN RCPT 24POS 0.1 GOLD SMD	89898-312LF	609-3046-ND
Bottom feather header	1	CONN RCPT 32POS 0.1 GOLD SMD	89898-316LF	609-3050-ND
BTN_PREV BTN_NEXT BTN_UP BTN_DOWN BTN_LEFT BTN_RIGHT BTN_SEL	7	SWITCH TACTILE SPST-NO 0.05A 12V	TL1107AF130WQ	EG2510-ND
SW1	1	SWITCH SLIDE SPDT 200MA 30V	1825232-1	A107673-ND
Flex connector (note: usually Good Display includes a better one)	1	CONN FPC TOP 24POS 0.50MM R/A	SFV24R-4STBE1HLF	609-5202-1-ND
Adafruit Feather M4 Express	1	FEATHER M4 EXPRESS ATSAMD51J19	3857	1528-2648-ND
E-Paper Display	1	4.2 inch e-ink panel	GDEW042T2	

Display available here: <https://tinyurl.com/GDEW042T2> • <https://tinyurl.com/ws13186>

This 4.2" display is also often available from AliExpress; just make sure it is the monochrome (not tri-color) version.