

MBARI
7700 Sandholdt Rd
Moss Landing CA 95039
831-775-1730

Item	Quantity	Reference	Value	Tolerance	Rating	Type	PCB Footprint	Manufacturer Number	Distributor Number	Description
1	1	C1	0.47							
2	8	C4,C5,C6,C7,C8,C9,C10,C11	0.1	10%		X7R	CAPC3216X127N 1206	Vishay Vitatron VJ0805Y	Garrett Lab Kit VJ0805 X7R	
3	3	C12,C13,C15	10uF	10%	16V	XGR	CAPC3225X279N 1210	Kenet C1210C106K4PACTU	DigiKey 399-3150-1-ND	
4	1	C14	0.01	10%		X7R	CAPC2012X94N 0805	Vishay Vitatron VJ0805Y	Garrett Lab Kit VJ0805 X7R	
5	5	D22,D23,D24,D25,D26	15V		800W	SMBJ15A	DIOM5336X262N SMB	Diodesinc SMBJ15A-13	DigiKey SMBJ15ADICT-ND	
6	2	J1,J2	MMNL6J				AMP 770178	AMP 770178-1	DigiKey A32457-ND	Header, Mini Universal Male-N-Lok, Dual Row, Vertical, 6 Circuit, Duplex Plated
7	1	J3	MMNL4J				AMP 770174	AMP 770174-2	DigiKey A25599-ND	Header, Mini Universal Male-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated
8	1	J4	MUMNL8J				AMP 794065	AMP 794065-2	DigiKey A25605-ND	Header, Mini Universal Male-N-Lok, Dual Row, Straight, 8 Circuit, Duplex Plated
9	1	O6	IRLR2905Z		55V		TO220FP981X239-3N D2PAK 134	Int Rect IRLR2905Z	Int Rect OC Sales	55V 22mOhm 35nC MOSFET
10	1	R1	54.9k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
11	1	R2	549k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
12	1	R3	510	5%	1/8 W		RESC2012X60N 0805	XOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
13	2	R4,R6	2.4k	5%	1/8 W		RESC2012X60N 0805	XOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
14	1	R5	1.2k	5%	1/8 W		RESC2012X60N 0805	XOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
15	1	R6	10.0k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
16	1	R8	11.0k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
17	1	R10	select	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
18	1	R11	4.02k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
19	1	R12	1.37k	1%	1/8 W		RESC2012X60N 0805	XOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
20	3	R13,R14,R15	10.0M	1%	1/2W	HVR37	RES1715-12X4	Phoenix Passive HVR37	Digi-Key PROJE	
21	3	U1,U2,U11	74HC191				SOIC127P600X175-16N	TLSN74HC191D	Digi-Key 295-8259-5-ND	IC 4-BIT UP/DN BIN CNTR 16-SOIC
22	2	U3,U6	OP196				SOIC127P600X175-8N	Analog Devices OP196GS	Digi-Key OP196GS-ND	IC OPAMP SGL-SUP R R LP 8SOIC
23	1	U4	LT3010				TSOP65P490X110-3N	Linear Tech LT3010EMS3E		IC DAC 12BIT MULT MONO 16-SOIC
24	1	U6	AD7541A				SOIC127P1032X265-16N	Analog Devices AD7541AKRZ	Digi-Key AD7541AKRZ-ND	IC DAC 12BIT MULT MONO 16-SOIC
25	1	U7	LTCT788-2.5				SOIC127P600X175-8N	Linear Tech LTC1788CS8-2.5		IC COUNTER OSC 14ST AGE 16SOIC
26	1	U12	74HC4060				SOIC127P600X175-16N	ON Semi MC74HC4060ADR2	Digi-Key MC74HC4060ADR05CT-ND	IC 4-BIT UP/DN BIN CNTR 16-SOIC
27	1	U13	74HC191				SOIC127P599-16N	TL SN74HC191D	Digi-Key 295-8259-5-ND	IC 4-BIT UP/DN BIN CNTR 16-SOIC
28	1	U14	NC7SZ11				SOIC127P599-16N	Fairchild NC7SZ11P6X	Digi-Key NC7SZ11P6XCT-ND	IC GATE AND UHS SGL 3INP SC70-6
29	2	U15,U16	NC7SZ14/SOT23				SOT16SP210-6N	Fairchild NC7S14M5X	Digi-Key NC7S14M5CT-ND	Schmitt Inverter
30	2	U17,U18	4N37		7500V		SOT16SP280-5N	Fairchild 4N37M	Digi-Key 4N37MFS-ND	OPTOCOUPLER TRANS-OUT 6-DIP
31	1	U19	AD202		1 kV		DIP6200	Analog Devices AD202JY		Isolation Amplifier