

Electronic Components

Quantity	Designator	Value	Value2	Type	Supplier - Digikey	LibRef	Price	Total
1	C1	47uF	50V		493-4554-1-ND	C_SMD_ALU_47U_50V_20%_PCV1H470MCL7GS	3.42	3.42
	C2, C3, C4, C5, C6, C7, C8, C19, C20, C25, C26, C29, C30, C31, C32, C33, C34, C38, C40, C41, C44,							
22	C47	100n	50V		1276-1936-1-ND	C_SMD_CER_100N_50V_10%_X7R_0603	0.1	2.2
	C9, C10, C11, C21, C22, C23, C39	10uF	50V		490-6544-1-ND	C_SMD_CER_10U_50V_10%_X7R_1210	0.73	5.11
2	C12, C13	1uF	50V		587-2910-1-ND	C_SMD_CER_1U_50V_10%_X7R_0805	0.19	0.38
1	C14	4.7nF	50V		478-1223-1-ND	C_SMD_CER_4N7_50V_10%_X7R_0603	0.1	0.1
1	C15	100uF	50V		493-4558-1-ND	C_SMD_ALU_100U_50V_20%_PCV1H101MCL2GS	5.12	5.12
1	C16	33nF	50V		1276-2042-1-ND	C_SMD_CER_33N_50V_10%_X7R_0603	0.1	0.1
2	C17, C46	3.3nF	50V		490-1503-1-ND	C_SMD_CER_3N3_50V_10%_X7R_0603	0.1	0.2
1	C18	47nF	50V		1276-1063-1-ND	C_SMD_CER_47N_50V_10%_X7R_0603	0.1	0.1
1	C24	470nF	50V		587-3170-1-ND	C_SMD_CER_470N_50V_10%_X7R_0603	0.24	0.24
2	C27, C35	10n	50V		399-1091-1-ND	C_SMD_CER_10N_50V_10%_X7R_0603	0.1	0.2
2	C28, C36	10uF	16V		490-6473-1-ND	C_SMD_CER_10U_16V_10%_X5R_0805	0.2	0.4
1	C37	22uF	6.3V		587-3398-1-ND	C_SMD_CER_22U_6V3_20%_X5R_1206	0.43	0.43
1	C42	6.8nF	50V		1276-1185-1-ND	C_SMD_CER_6N8_50V_10%_X7R_0603	0.1	0.1
1	C45	3.3uF	35V		445-7553-1-ND	C_SMD_CER_3U3_35V_10%_X7R_0805	0.56	0.56
1	D1			ACSL-6210-56RE	516-2916-1-ND	D_ACSL-6210_SO-8	5.09	5.09
1	D2			FT232RQ	768-1008-1-ND	D_FT232RQ	4.5	4.5
1	D3				NHD-0420CW-AR3-ND	D_LCD_80CHAR_20X4_NHD-0420CW-AR3	29.9	29.9
1	D4			DSPIC33EP16GS506	DSPIC33EP16GS506-I/PT-ND	D_DSPIC33EP16GS506_TQFP-64	4.09	4.09
4	H1, H2, H3, H4, H5,			M3 Standoffs 20mm	36-25505-ND	E_STANDOFF_20MM_M3_PLASTIC	0.59	2.36
6	H6			Blue	VAOL-S6SB4CT-ND	H_SMD_LED_BLUE_0603	0.5	3
1	L1	22uH	15A		732-4237-1-ND	L_SMD_22U_15A_7MOHM_20%_74435582200	7.83	7.83
1	L2	10uH	2A		732-1200-1-ND	L_SMD_10U_2A_20%_IND_74477710	2.68	2.68
1	L3	4.7uH	1A		732-2956-1-ND	L_SMD_4U7_1A_20%_0806	0.92	0.92
1	N1			LT3741	LT3741EUF#PBF-ND	N_LT3741EUF_QFN-20	8.44	8.44
1	N2	36V	72W		285-1829-ND	N_EXT_ACDC_36V_75W	27.41	27.41
1	N3			LT3973	LT3973EDD-5#PBF-ND	N_LT3973-5_DFN-10-3x3	5.88	5.88
1	N4			AP2114H-3.3	AP2114H-3.3TRG1DICT-ND	N_AP2114H-3.3_SOT223	0.36	0.36
1	N5	1.5V	7mA	ISL21080CIH315Z-TK	ISL21080CIH315Z-TKCT-ND	N_UREF_1V5_0A007_52UVRMS_ISL21080CIH315Z_SOT-23-3	1.61	1.61
1	N6			TLVH431	296-17972-1-ND	N_TLVH431_SOT23-3	0.72	0.72
6	R1, R31	4.7k	100mW		YAG1238CT-ND	R_SMD_THINFILM_4K7_0W1_1%_50PPM_0603	0.1	0.6
	R2, R12, R19, R30, R32, R37, R38, R39,							
10	R40, R41	10k	100mW		YAG2321CT-ND	R_SMD_THINFILM_10K_0W1_1%_50PPM_0603	0.1	1
1	R3	43k	100mW		P43KDBCT-ND	R_SMD_THINFILM_43K_0W1_0.1%_25PPM_0603	0.63	0.63
2	R4, R5	10m	500mW		LVK12R010DERCT-ND	R_SMD_THICKFILM_0E01_0W5_0.5%_50PPM_1206	0.74	1.48
2	R6, R28	47k	100mW		YAG3355CT-ND	R_SMD_THINFILM_47K_0W1_1%_50PPM_0603	0.1	0.2
3	R7, R8, R24	10E	100mW		YAG3351CT-ND	R_SMD_THINFILM_10E_0W1_1%_50PPM_0603	0.1	0.3
2	R11, R29	180k	100mW		P180KDBCT-ND	R_SMD_THINFILM_180K_0W1_0.1%_25PPM_0603	0.63	1.26
1	R15	150k	100mW		P150KDBCT-ND	R_SMD_THINFILM_150K_0W1_1%_50PPM_0603	0.63	0.63
	R16, R17, R18, R21, R22, R23	100E	100mW		YAG2128CT-ND	R_SMD_THINFILM_100E_0W1_1%_50PPM_0603	0.17	1.02
1	R20	470E	0.1W		YAG2128CT-ND	R_SMD_THINFILM_470E_0W1_1%_50PPM_0603	0.17	0.17
	R25, R9, R10, R13, R14,	270E	0.1W		P270DBCT-ND	R_SMD_THINFILM_270E_0W1_1%_50PPM_0603	0.63	0.63
1	R26	150E	0.1W		P150DBCT-ND	R_SMD_THINFILM_150E_0W1_1%_50PPM_0603	0.63	0.63
1	R27	100k	100mW		YAG2319CT-ND	R_SMD_THINFILM_100K_0W1_1%_50PPM_0603	0.1	0.1

4 R33, R34, R35, R36	33E	0.1W		MCT0603-33.0-CFCT-ND	R_SMD_THINFILM_33E_0W1_1%_50PPM_0603	0.13	0.52	
1 U1			290VAA5F201B1	CT3010-ND	U_ENCODER_2BIT_QUAD_SPST	4.21	4.21	x
1 V1			MBR0540T1G	MBR0540T1GOSCT-ND	V_SMD_SCHOTTKY_MBR0540T1G_40V_0A5_SOD-123	0.36	0.36	x
2 V2, V3			BSC093N04LS	BSC093N04LS GCT-ND	V_SMD_FET_NMOS_40V_13A_24NC_0E0093_PG-TDSON-8	0.62	1.24	x
1 V4	50V	6A		6A05DICT-ND	V_THT_DIODE_6A05-T_50V_6A	0.43	0.43	x
1 V6			BC847B	BC847BLT1GOSCT-ND	V_SMD_TRANS_NPN_BC847B_50V_0A2_SOT-23-3	0.12	0.12	
1 X1				817-1489-ND	X_POWER_ENTRY_MODULE_W/FILTER_W/FUSE_10A_SMD_	15.96	15.96	x
1 X2			USB Micro B	609-4618-1-ND	X_SMD_USB_MICRO-B_2.0	0.46	0.46	x
1 X3					X_CONNECTOR_P2.54_D0.9_1X6		0	x
1 X4					X_CONNECTOR_P2.54_D0.9_1X4		0	x
1 X6					X_CONNECTOR_P2.54_D0.9_1X2		0	x
1 X7			Rocker Switch	360-1721-ND	X_SWITCH_ROCKER_SPST_6A_250VAC	2.02	2.02	x
2 Z1, Z2	5A		MH2029-600Y	MH2029-600YCT-ND	Z_SMD_FERRITE_5A_60E@100MHZ_0805	0.1	0.2	x
2 Z3, Z4	1.5A		BLM18KG471SN1D	490-5257-1-ND	Z_SMD_FERRITE_1A5_470E@100MHZ_0603	0.1	0.2	x

Mechanical Components

1		Housing	HM1417-ND		30.18	30.18	
1		PCB	Pcb-pool		89.76	89.76	

Total Cost: 277.76