Part Name	Description	Unit Quantity	Unit Prototype Cos	Total Prototype Co	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part Number	Vendor Link Datasheet Link Suppl	er Supplier Part Number	# Ordered	Date Order # Received Surplus	Schematic Reference Designators
PIC18F27Q84	Microcontroller	1	\$2.000	\$2.000	\$1.660	\$1.660	Microchip	PIC18F27Q84-I/SO	https://www.dig https://ww1.mic Digike	150-PIC18F27Q84-I/S)-ND	5	#######	PIC18F27Q84
TI OPT4048	RGB Sensor	1	\$1.810	\$1.810	\$1.158	\$1.158	Texas Instruments	OPT4060DTSR	https://www.dig https://www.ti.c/ Digike	296-OPT4048DTSRCT-ND	5	#######	TI OPT4060
L6981C33DR	3.3V Regulator	1	\$2.800	\$2.800	\$1.220	\$1.220	STMicroelectronics	L6981C33DR	https://www.dig https://www.st.c Digike	497-L6981C33DRCT-ND	5	#######	U1
33uH Inductor	Regulator Inductor	1	\$0.350	\$0.350	\$0.144	\$0.144	TDK Corporation	VLS6045EX-330M	https://www.dig https://product.1 Digike	445-173050-1-ND	10	#######	L
0.1 uF Capacitor	Decoupling Capacitors	4	\$0.006	\$0.024	\$0.003	\$0.012	Samsung Electro-Mechanics	CL05B104KP5NNNC	https://www.dig https://mm.digik Digike	1276-1002-1-ND	20	#######	C1,C5,Cboot
1 uF Capacitor	Regulator Vcc Capacitor	1	\$0.008	\$0.008	\$0.004	\$0.004	Samsung Electro-Mechanics	CL10B105KP8NNNC	https://www.dig https://mm.digik Digike	1276-1946-1-ND	10	#######	Cvcc
10 uF Capacitor	Regulator Vin Capacitor	1	\$0.050	\$0.050	\$0.014	\$0.014	Samsung Electro-Mechanics	CL10A106MP8NNNC	https://www.dig https://weblib.sa Digika	1276-1871-1-ND	10	#######	Cin
22 uF Capacitor	Regulator Vout Capacitor	1	\$0.059	\$0.059	\$0.017	\$0.017	Samsung Electro-Mechanics	CL10A226MP8NUNE	https://www.dig https://mm.digik Digike	1276-1274-1-ND	10	#######	Cout
White LED	Illumination LED	1	\$0.200	\$0.200	\$0.060	\$0.060	Samsung Semiconductor, Inc	SPMWHT541MP5WAR0S5	https://www.dig https://downloar Digike	1510-1519-1-ND	10	#######	D2
Green LED	Debugging LED	1	\$0.125	\$0.125	\$0.069	\$0.069	Lite-On Inc.	LTST-C150KGKT	https://www.dig https://optoelec Digike	160-1404-1-ND	20	#######	D3
Red LED	Debugging LED	1	\$0.125	\$0.125	\$0.125	\$0.125	Lite-On Inc.	LTST-C150KRKT	https://www.dig https://optoelec Digike	160-1405-1-ND	20	#######	D4
1.5 A Fuse	Regulator Fuse	1	\$0.158	\$0.158	\$0.056	\$0.056	Bel Fuse Inc.	0ZCG0075FF2C	https://www.dig https://www.belt Digike	5923-0ZCG0075FF2CCT-ND	5	#######	F1
250mA Fuse	Microcontroller Fuse	1	\$0.192	\$0.192	\$0.069	\$0.069	Bel Fuse Inc.	0ZCM0010FF2G	https://www.dig https://www.bell Digike	5923-0ZCM0010FF2GCT-ND	5	#######	F2
10 kOhm Resistor	10 kOhm Resistor	1	\$0.025	\$0.025	\$0.002	\$0.002	Stackpole Electronics Inc	RMCF0805FT10K0	https://www.dig https://www.seic Digiko	RMCF0805FT10K0CT-ND	50	#######	R1,R2,R7,R8,R9,R10
62 Ohm Resistor	Debug LED Resistors	1	\$0.025	\$0.025	\$0.002	\$0.002	Stackpole Electronics Inc	RMCF0805FT62R0	https://www.dig https://www.seic Digiko	RMCF0805FT62R0CT-ND	10	#######	R5,R6
5.1 Ohm Resistor	Illumination LED Resistor	1	\$0.030	\$0.030	\$0.007	\$0.007	Stackpole Electronics Inc	RMCF0805FT5R10	https://www.dig https://www.seic Digiko	RMCF0805FT5R10CT-ND	10	#######	R4
FDV303N	Switch Transistor	3	\$0.207	\$0.621	\$0.046	\$0.139	Onsemi	FDV303N	https://www.dig https://www.ons Digike	FDV303NCT-ND	10	#######	U2,U3,U4
Barrel Jack	Wall Adapter Barrel Jack	1	\$0.890	\$0.890	\$0.675	\$0.675	Tensility International Corp	54-00165	https://www.dig https://tensility.: Digik	839-54-00165CT-ND	3	#######	J1
Test Points	Test points	8	\$0.262	\$2.096	\$0.143	\$1.144	Keystone Electronics	5006	https://www.dig https://www.key Digike	36-5006-ND	25	#######	J2,J3
Pushbutton	Debugging pushbutton	1	\$0.127	\$0.127	\$0.089	\$0.089	C&K	PTS526SK15SMTR2 LFS	https://www.dig https://www.cks Digiko	CKN12221-1-ND	10	#######	TP1,TP2,TP3, TP4,TP5,TP6,TP7,TP8