

Name	Desc	Package	Manufacturer	Manufacturer part number	Qty	supplier	reference
Y1	CERAMIC RESONATOR 16.0MHZ SMD		Murata Electronics	CSTCE16M0V53-R0	1	Digi-Key	490-1198-1-ND
T1,T2	TRANSISTOR GP NPN AMP SOT-23	SOT-23	Fairchild Semiconductors	MMBT3904FSCT	2	Digi-Key	MMBT3904FSCT-ND
U1	IC CTLR ON/OFF W/DEB TSOT23-6	6-SOT23	Maxim Integrated	MAX16054AZT+T	1	Digi-Key	MAX16054AZT+TCT-ND
U2	IC OPAMP GP 700KHZ DUAL 8TSSOP	8-TSSOP	Texas Instruments	LM358PWR	1	Digi-Key	296-9555-1-ND
U3	IC REG BUCK BST SYNC ADJ 12MSOP	12-MSOP	Linear Technology	LTC3536EMSE#PBF	1	Digi-Key	LTC3536EMSE#PBF-ND
U4	IC VOLT COMPARATOR DUAL 8-TSSOP	8-TSSOP	STMicroelectronics	LM293PT	1	Digi-Key	497-7818-1-ND
U5	IC LED DRIVER LINEAR 28-TSSOP	28-TSSOP	Texas Instruments	TLC59116IPWR	1	Digi-Key	296-23354-1-ND
U6	IC MCU 8BIT 128KB FLASH 44TQFP	44-TQFP	Atmel	ATMEGA1284P-AU	1	Digi-Key	ATMEGA1284P-AU-ND
U7	CONN RECEPT 2MM SINGLE SMD 10POS GOLD	1X10SMD	open/any	NPPN101BFLD-RC	2	Digi-Key	S5902-10-ND
JP1A	CONTACT BATT POSITIVE AA/AAA/N		Keystone Electronics	'637	1	Digi-Key	637K-ND
JP1B	CONTACT BATT NEG SPRING AA/AAA/N		Keystone Electronics	'629	2	Digi-Key	629K-ND
JP2	CONN HEADER R/A 6POS 90° GOLD SMD	1X06SMD/90	open/any	961106-5500-AR-PR	1	Digi-Key	3M9501CT-ND
JP3	do not populate						
JP4	CONN FMALE 14POS DL .1" GOLD SMD	2X07SMD	open/any	NPPC072KFMS-RC	1	Digi-Key	S5716-ND
S1	SWITCH TACTILE SPST-NO 0.05A 12V		C&K Components	PTS525SM10SMTR LFS	1	Digi-Key	CKN9104CT-ND
S2	SWITCH TAPE SEAL 2 POS SMD	CTS-219-02	CTS Electrocomponents	219-2MST	1	Digi-Key	CT2192MST-ND
L1	INDUCTOR POWER 4.7UH 1.3A SMD	VLCF5024T	TDK Corporation	VLCF5024T-4R7N1R3-2	1	Digi-Key	445-8748-1-ND
L2	INDUCTOR MULTILAYER 10UH 0805	'0805	TDK Corporation	MLZ2012M100W	1	Digi-Key	445-6396-1-ND
LED1	LED CHIPLED 570NM GREEN 1206 SMD	'1206	OSRAM Opto Semiconductors	LG N971-KN-1	1	Digi-Key	475-1407-1-ND
LED2	do not populate						
LED3	LED YELLOW CLEAR THIN 0805 SMD	'0805	Lite-On Inc	LTST-C171YKT	1	Digi-Key	160-1431-1-ND
LED4	LED AMBER CLR THIN 0805 SMD	'0805	Lite-On Inc	LTST-C171AKT	1	Digi-Key	160-1419-1-ND
LED5	LED RED ORAN CLEAR THIN 0805 SMD	'0805	Lite-On Inc	LTST-C171EKT	1	Digi-Key	160-1422-1-ND
RGB_LED_L,RGB_LED_M,RGB_LED_R	LED MULTILED RGB WHT BINNED 6PLC	6-PLCC	OSRAM Opto Semiconductors	LRTBG6SF-V2BA-3E7F-0-0-ZP	3	Digi-Key	475-2853-1-ND
R1	RES 42.2k OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P42.2KHCT-ND
R2,R22,R23	RES 4.7k OHM 1/10W 1% 0603 SMD	'0603	open/any		3	Digi-Key	P4.70KHCT-ND
R3,R8,R16	RES 1M OHM 1/10W 1% 0603 SMD	'0603	open/any		3	Digi-Key	P1.00MHCT-ND
R4	RES 100K OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P100KHCT-ND
R5	RES 49.9k OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P49.9KHCT-ND
R6	RES 6.49k OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P6.49KHCT-ND
R7	RES 221k OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P221KHCT-ND
R10,R11	RES 0.0 OHM 1/10W 5% 0603 SMD	'0603	open/any		2	Digi-Key	P0.0GCT-ND
R12,R13,R19,R20,R24,R25	RES 10k OHM 1/10W 5% 0603 SMD	'0603	open/any		6	Digi-Key	P10KGCT-ND
R14	RES 47k OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P47.0KHCT-ND
R15	RES 20K OHM 1/10W 1% 0603 SMD	'0603	open/any		1	Digi-Key	P20.0KHCT-ND
R17	RES 39 OHM 1/10W 5% 0603 SMD	'0603	open/any		1	Digi-Key	P39GCT-ND
R18,R21	RES 470 OHM 1/10W 5% 0603 SMD	'0603	open/any		2	Digi-Key	P470GCT-ND
R9,R26,R27,R28	RES 68 OHM 1/10W 5% 0603 SMD	'0603	open/any		4	Digi-Key	P68GCT-ND
C1,C2,C10,C11,C13,C14,C15,C16,C17,C18	CAP CER 0.1UF 16V 10% X7R 0603	'0603	Taiyo Yuden	EMK107B7104KA-T	10	Digi-Key	587-1240-1-ND
C3,C12,C19	CAP CER 10UF 10V 10% X5R 0805	'0805	Murata Electronics	GRM21BR61A106KE19L	3	Digi-Key	490-1709-1-ND
C4,C8	CAP CER 1UF 16V 10% X7R 0603	'0603	TDK Corporation	C1608X7R1C105K080AC	2	Digi-Key	445-1604-1-ND
C5	CAP CER 220PF 50V 5% NP0 0603	'0603	TDK Corporation	C1608C0G1H221J080AA	1	Digi-Key	445-1285-1-ND
C6	CAP CER 47PF 50V 5% NP0 0603	'0603	TDK Corporation	C1608C0G1H470J080AA	1	Digi-Key	445-1277-1-ND
C7	CAP CER 22UF 6.3V 10% X5R 1206	'1206	AVX Corporation	12066D226KAT2A	1	Digi-Key	478-1576-1-ND
C9	CAP CER 100PF 16V 10% X7R 0603	'0603	open/any		1	Digi-Key	478-6207-1-ND