













Designator	Quantity Value	PartNumber	Comment	Description	Footprint	LCSC Part N.
C1, C8, C19, C21, C22	5 100nF	CC0603KRX7R9BB104	C0603-100nF-50V	0603 Multilayer Ceramic Capacitors MLCC	CAP_CHIP_0603	C14663
C2	1 33µF	450BXW33MEFR12.5X25	EC125-33uF-450V	Aluminum Electrolytic Capacitor, Polarized, Aluminum (wet), 450V, 20%+Tol, 20%-Tol, 33uF, Through Hole Mount	ECAP_DIP_12.5_90	C1589601
C3	1 220uF	EEEFK1 J221AQ	EC125-220uF-63V	Radial Can - SMD ALUMINUM ELECTROLYTIC CAPACITOR FK 63V220muF 20% 0.492Dia 12.50mm	ECAP_SMD_D12.5_13.5L	C215762
C4, C5, C12, C15, C16, C17, C18	7 1μF	CL10A105KB8NNNC	C0603-1uF-50V	0603 Multilayer Ceramic Capacitors MLCC	CAP_CHIP_0603	C15849
C6	1 100nF	CC0603KRX7R0BB104	C0603-100nF- 100V	0603 0.1 uF100 V±10% Tolerance X7RMultilayer Ceramic Capacitor	CAP_CHIP_0603	C113803
C7	1 10uF	GRM32ER71J106KA12L	C1210-10uF-63V	Multilayer Ceramic Capacitors MLCC - SMD/SMT1210 10uF63volts * Derate Voltage/Temp	CAP_CHIP_1210	C437568
C9	1 470pF	CC0603KRX7R8BB471	C0603-470pF-25V		CAP_CHIP_0603	C519413
C10	1 33nF	CL10B333KB8NNNC	C0603-33nF-50V	0603 Multilayer Ceramic Capacitors MLCC	CAP_CHIP_0603	C21117
C11, C13, C14	3 10µF	CL10A106MA8NRNC	C0603-10uF-25V	0603 Multilayer Ceramic Capacitors MLCC	CAP_CHIP_0603	C96446
C20	1 10nF	0603B103K500NT	C0603-10nF-50V	0603 Multilayer Ceramic Capacitors MLCC	CAP_CHIP_0603	DNP
CN1	1	4DB-P108-02	ACIN	CONN BARRIER STRIP 2 CIRC 0.325"	BT-8.26-1X2P	C5902324
CN2	1	X2016WR-06-46SN	BACKLIGHTPANEL	Wire-To-Board Connector, Right Angle, 2 mm, 2 Contacts, Header, PH Series	PH_DIP_90_1X6P	C696999
CN3	1	5227222-3	LIGHTTRIGGER	RFBNC Connector, Female, Panel Mount, Board Mount, Solder Terminal, Jack	BNC-TE-5227222	C3175614
D1	1	PMEG10010ELRX	PMEG10010ELR	On a Reel of 3000, Nexperia 100V1.4A, Schottky Diode, 2-Pin SOD-123W PMEG10010ELRX	SOD123	C179426
L1	1 10uH	SPM4015T-100M-LR	L-PWR-10uH-1.5A	Inductor Power Shielded Wirewound 10uH 20% 100KHz Metal 1.5A0.345Ohm DCRT/R	IND_PWR_0404	C695172
Q1	1	BSC070N10NS5	BSC070N10NS5	MOSFET Power-Transistor, 100V/ Superior thermal resistance	TDSON-8	C534364
Q2	1	AO3400A	AO3400A	30V5.7A26.5mΩ@10V,5.7A1.4W1.5V@250uA1 NChannel SOT-23-3LMOSFETs	SOT23	C20917
R1	1 47R	RC2010FK-0747RL	R2010-47R	Res Thick Film 2010 47 Ohm 1%3/4W±100ppm/°C Molded SMD SMD Embossed T/R	RES_CHIP_2010	C877463
R2, R8, R13, R23	4 10k	0603WAF1002T5E	R0603-10K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C25804
R3	1 10k	RK09L114001T	BRIGHTNESS	Potentiometer, 0.05W, 10000ohm, 10V, 20%+/-Tol, 1 Turn(s), 4845	RK09L1140	C470463
R4	1 470	0603WAF4700T5E	R0603-470R	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23179
R5	1 120k	0603WAF1203T5E	R0603-120K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C25808
R6	1 2k	0603WAF2001T5E	R0603-2K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C22975
R7	1 100k	0603WAF1003T5E	R0603-100K	100mWThick Film Resistors 75V±100ppm/∘c ±1%0603 Chip Resistor	RES_CHIP_0603	C25803
R9	1 1k	3314J-1-102E	VR-SMD-1K-B	Trimmer, Cermet, 0.25W, 1000ohm, 300V, 20%+/-Tol, -100,100ppm/Cel, 1 Turn(s), 2018	VR_SMD_4.5mm	C124640
R10, R18, R19, R20	4 1k	0603WAF1001T5E	R0603-1K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C21190
R11	1 470k	0603WAF4703T5E	R0603-470K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23178
R12	1 39k	0603WAF3902T5E	R0603-39K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23153
R14	1 2.2k	0603WAF2201T5E	R0603-2K2	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C4190
R15, R17	2 47k	0603WAF4702T5E	R0603-47K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C25819
R16	1 390k	0603WAF3903T5E	R0603-390K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23150
R21	1 200mR	WSL2010R2000FEA18	R2010-0R2	Res Metal Strip 2010 0.2 Ohm 1%1W ±75ppm/°C Molded SMD SMD Embossed Plastic T/R	RES_CHIP_2010	C2073579
R22	1 240k	AC0603DR-07240KL	R0603-240K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES CHIP 0603	C227471
SW1	1	SPPH410100	FORCEON	Switch Push Button N.O./N.C. DPDTPlunger 0.1A30VDC Latching PC Pins Thru-Hole Bulk	SW LOCK SPPH410100	C370973
U1	1	TUHS15F12	TUHS15F12	AC/DC 15W 12V Single Output Power Supply, Encapsulated Board Mount Module	TUHS15F12	C3031238
U2	1	TLP2361(TPL,E(T	TLP2361	Logic IC Output Optocoupler, 1-Channel, 1-⊟ement, 3750VIsolation, 20MBps	SO5	C107626
U3	1	LM5158QRTERQ1	LM5158	5-A, 40-V, wide VIN boost, flyback, & SEPIC converter 16-WQFN -40 to 150	QFN16_3X3_0.5E_EP	C3188431
U4	1	TPS25961DRVR	TPS25961	2.7-V–19-V, 106-mΩ, eFuse With Adjustable Current Limit and Short-Circuit	WSON6	C5571272
U5	1	SPX3819M5-L	SPX3819-ADJ	Adjustable Positive LDO Regulator, 0.7V Dropout, PDSO5	SOT23-5	C9056
U6	1	TPS60403DBVR	TPS60403	60mACharge Pump Voltage Inverter with Fixed 250kHz Operation 5-SOT-23 -40 to 85	SOT23-5	C11338
U7	1	TPS70933DBVR	TPS70933	LDO Regulator Pos 3.3V 0.15A5-Pin SOT-23 T/R	SOT23-5	C89347
U8	1	OPA2197IDR	OPA2197	10MHz 5pA Dual channel SOIC-8 Precision Op Amps	SOIC8	C139363