













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	Auminum Electrolytic Capacitor, Polarized, Auminum (wet), 450V, 20%+Tol, 20%-Tol, 33uF, Through Hole Mount	ECAP_DIP_12.5_90	C1589601
СЗ	1	220uF	EEEFK1J221AQ	EC125-220uF-63V	Radial Can - SMD ALUMINUM ELECTROLYTIC CAPACITOR FK 63 V 220 muF 20 % 0.492 Dia 12.50 mm	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		10uF			Multilayer Ceramic Capacitors MLCC - SMD/SMT1210 10uF63volts* Derate Voltage/Temp		C437568
C9	1	470pF			25V470pFX7R±10%0603 Multilayer Ceramic Capacitors MLCC - SMD/SMTROHS	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		C696999
CN3	1				RFBNC Connector, Female, Panel Mount, Board Mount, Solder Terminal, Jack		C3175614
D1	1		PMEG10010ELRX		On a Reel of 3000, Nexperia 100V1.4A, Schottky Diode, 2-Pin SOD-123W PMEG10010ELRX		C179426
L1	1	10uH			Inductor Power Shielded Wirewound 10uH 20%100KHz Metal 1.5A0.345Ohm DCRT/R	IND_PWR_0404	C695172
Q1	1				MOSFET Power-Transistor, 100V/ Superior thermal resistance	TDSON-8	C534364
Q2	1			AO3400A	30V5.7A26.5mΩ@10V,5.7A1.4W1.5V@250uA1 NChannel SOT-23-3LMOSFETs		C20917
R1	1	47R		R2010-47R	Res Thick Film 2010 47 Ohm 1%3/4W±100ppm/°C Molded SMD SMD Embossed T/R		C877463
R2, R9, R13, R23		10k		R0603-10K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C25804
R3		10k		BRIGHTNESS	Potentiometer, 0.05W, 10000ohm, 10V, 20%+/-Tol, 1 Turn(s), 4845		C470463
R4		470		R0603-470R	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C23179
R5		51k		R0603-51K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES CHIP 0603	C23179
				R0603-1K			
R6, R10, R18, R19, R20		1k			100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C21190
R7		100k		R0603-100K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C25803
R8		39R		R0603-39R	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23154
R11		470k		R0603-470K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C23178
R12		39k		R0603-39K	100mWThick Film Resistors 75V±100ppm/°C±1%0603 Chip Resistor		C23153
R14		2.2k		R0603-2K2	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C4190
R15, R17		47k		R0603-47K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C25819
R16		390k		R0603-390K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor	RES_CHIP_0603	C23150
R21		200mR		R2010-0R2	Res Metal Strip 2010 0.2 Ohm 1%1W±75ppm/°C Molded SMD SMD Embossed Plastic T/R		C2073579
R22	1	240k		R0603-240K	100mWThick Film Resistors 75V±100ppm/°C ±1%0603 Chip Resistor		C227471
SW1	1			FORCEON	Switch Push Button N.O./N.C. DPDT Plunger 0.1A30VDC Latching PC Pins Thru-Hole Bulk		C370973
U1	1			TUHS15F12	AC/DC 15W 12V Single Output Power Supply, Encapsulated Board Mount Module	TUHS15F12	C3031238
U2	1			TLP2361	Logic IC Output Optocoupler, 1-Channel, 1-⊟ement, 3750V Isolation, 20MBps		C107626
U3	1			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			TPS70933	LDO Regulator Pos 3.3V0.15A5-Pin SOT-23 T/R		C89347
U8	1		OPA2197IDR	OPA2197	10MHz5pADual channel SOIC-8 Precision Op Amps		C139363