

Part	Value	Device	Package	Description	MFG	PN
C1	22uF	CAP_POL0805	0805-POL	Capacitor 22μF Molded Tantalum Polymer 10V 0805 200mOhm	KYOCERA AVX	F381A226MSA
C2	0.1uF	CAP0805	0805	Capacitor ceramic bypass		
C3	22uF	CAP_POL0805	0805-POL	Capacitor 22μF Molded Tantalum Polymer 10V 0805 200mOhm	KYOCERA AVX	F381A226MSA
C4	10uF	CAP0805	0805	Capacitor		
C5	10uF	CAP1206	C1206K	Capacitor 10μF ±10% 16V Ceramic X7R 1206	Kemet	C1206X105K4RACAUTO
C6	33uF	CAP_POL0805	0805-POL	Capacitor 33μF Molded Tantalum Polymer 10V 0805 200mOhm	KYOCERA AVX	F381A336MSALZT
C7	22uF	CAP0805	0805	Capacitor		
C8	10uF	CAP0805	0805	Capacitor		
C9	10uF	CAP_POL0805	0805-POL	Capacitor 10μF Molded Tantalum Polymer 10V 0805 200mOhm	KEMET	T529P106M010AAE200
C10	10uF	CAP0805	0805	Capacitor		
C11	22uF	CAP2220	C2220K	Capacitor Film 22uF 20% 16VDC 2220	Rubycon	16MU226MD35750
C12	0.1uF	CAP0805	0805	Capacitor ceramic bypass		
C13	0.1uF	CAP0805	0805	Capacitor ceramic bypass		
C14	47uF	CAP0805	C0805	Capacitor 47μF ±20% 10V Ceramic X5R 0805	KYOCERA AVX	0805ZD476MAT2A
C15	0.1uF	CAP0805	0805	Capacitor ceramic bypass		
C16	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C17	1nF	CAP0805	0805	Capacitor ceramic bypass C0G		
C18	10uF	CAP_POL0805	0805-POL	Capacitor 10μF Molded Tantalum Polymer 10V 0805 200mOhm	KEMET	T529P106M010AAE200
C19	0.1uF	CAP0805	0805	Capacitor ceramic bypass		
C20	47uF	CAP0805	0805	Capacitor		
C21	10uF16V	CAP1206	C1206	Capacitor 10 μF ±10% 16V Ceramic X7R 1206	Kemet	C1206X106K4RACAUTO
C22	47uF	CAPPOL1206	1206	Capacitor Tantalum Polymer 6.3 V 1206 45mOhm	Vishay Sprague	T55A107M6R3C0045
C23	1nF	CAP0805	0805	Capacitor		
C24	1uF	CAP0805	0805	Capacitor		
C25	4.7uF25v	CAP1206	C1206	Capacitor		
C26	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C27	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C28	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C29	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C30	10nF x 8	CAP0603	C0603K	Capacitor ceramic bypass		
C31	33uF	CAP0805	0805	Capacitor 33 μF Molded Tantalum Polymer 10V 0805 200mOhm	KYOCERA AVX	F381A336MSALZT
C32	10nF	CAP0805	C0805	Capacitor ceramic bypass		
C33	0.1uF	CAP0603	C0603	Capacitor ceramic bypass		

C34	1uF16V	CAP1206	C1206	Capacitor 1 µF ±10% 16V Ceramic X7R 1206	Kemet	C1206X105K4RACAUTO
C35	0.1uF Film	CAP0805	0805	Capacitor Film 0.1uF 20% 16VDC 2220	Rubycon	25MU104KZ22012
C36	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C37	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C38	10nF	CAP0603	C0603K	Capacitor ceramic bypass		
C39	0.1uF	CAP0805	C0805	Capacitor ceramic bypass		
C40	0.1uF	CAP0603	C0603	Capacitor ceramic bypass		
C41	47uF	CAPPOL1206	1206	Capacitor Tantalum Polymer 6.3 V 1206 45mOhm	Vishay Sprague	T55A107M6R3C0045
D3	SZSM05T1G	DIODE_CA-AC__	SOT23C	5V RS 9.8V Clamp 17A Ipp Tvs Diode Surface Mount SOT-23-3	On Semiconductor	SZSM05T1G
FB1	1K	Ferrite Bead Inductor	0402	Ferrite Bead Inductor 1 kOhms @ 100 MHz SMD 0402	Murata	BLM15HG102SH1D
FB2	1K	Ferrite Bead Inductor	0402	Ferrite Bead Inductor 1 kOhms @ 100 MHz SMD 0402	Murata	BLM15HG102SH1D
FB3	1K	Ferrite Bead Inductor	0402	Ferrite Bead Inductor 1 kOhms @ 100 MHz SMD 0402	Murata	BLM15HG102SH1D
IC1	MAX14930	ISO7240	SO-16DW	Digital Isolator 2750Vrms 4 Channel 25Mbps 16-SOIC-Wide	Analog Devices Inc./Maxim	MAX14930EAW+
IC2	S-1200B53-M5T1x	MIC5219XX	SOT23-5	IC REG LINEAR 5.3V 150MA SOT23-5	ABLIC Inc.	S-1200B53-M5T1U
IC3	24LC64SN	SO8-EEPROM	SO-08	Serial EEPROM 64/128/256/or 512K	MICROCHIP	24LC64-I/SN
J1	Encoder	M04X2	2X4	0.1" spacing Header, two rows of four	TE Connectivity AMP Connectors	826656-4
J2	Display	M04X1	1X04_LOCK	0.1" spacing Header 4 part of 1X16 piece	TE Connectivity AMP Connectors	1-825433-6
J3	Buttons	M06X1	1X06_LOCK	0.1" spacing Header 6 part of 1X16 piece	TE Connectivity AMP Connectors	
J4	Serial	M03X1	1X03_LOCK	0.1" spacing Header 3 part of 1X16 piece	TE Connectivity AMP Connectors	
H1T	Teensy-R	M14X1	1X14	Connector Header Through Hole 14 position 0.100" series 350	Mill-Max Manufacturing Corp.	350-10-114-00-006000
H1B	Teensy-R	F14X1	1X14	Connector Header Through Hole 14 position 0.100" series 350	Mill-Max Manufacturing Corp.	310-41-114-41-001000
H2T	Teensy-L	M14X1	1X14	Connector Header Through Hole 14 position 0.100" series 350	Mill-Max Manufacturing Corp.	350-10-114-00-006000
H2B	Teensy-L	F14X1	1X14	Connector Header Through Hole 14 position 0.100" series 350	Mill-Max Manufacturing Corp.	310-41-114-41-001000
H3T	Teensy-I	M05X1	1X5 -1	Connector Header Through Hole 5 position 0.100" Remove 1 pos	Mill-Max Manufacturing Corp.	350-10-105-00-006000
H3B	Teensy-I	F05X1	1X5 -1	Connector Header Through Hole 5 position 0.100" Remove 1 pos	Mill-Max Manufacturing Corp.	310-41-105-41-001000
L1	Blue	0603-LED	0603	LED Blue 0603	Kingbright	APHM1608VRBXF/A-5
L2	22uH	1210-IND	1210	INDUCTOR 22µH Shielded Wirewound 120mA 480mOhm Max	TDK Corporation	NLFV32T-220K-EF
L3	100uH	0805-IND	0805	Inductors 100UH 50MA 4 OHM SMD	Taiyo Yuden	LBR2012T101KV
L4	Green	0603-LED	0603	LED Green 0603	Vishay Semiconductor	VLMTG1300-GS08
R1	10K	0805-RES	0805	Resistor 1% to 5%		
R2	4.7K	0603-RES	0603	Resistor Optional for testing - Do Not Install		
R3	4.7K	0603-RES	0603	Resistor Optional for testing - Do Not Install		
R5	330	0805-RES	0805	Resistor 1% to 5%		
R6	180	0805-RES	0805	Resistor 1% to 5%		

R7	180	0805-RES	0805	Resistor 1% to 5%		
R8	20K	0805-RES	0805	Resistor 1% to 5%		
R11	12.1K	0805-RES	0805	Resistor ±0.1% 0.125W, 1/8W	Vishay Dale	TNPW080512K1BEEA
R12	86.6K	0805-RES	0805	Resistor ±0.1% 0.125W, 1/8W	Vishay Dale	TNPW080580K6BEEN
R13	2.5K	0603-RES	0603	Resistor 1% to 5%		
R14	2K	0603-RES	0603	Resistor 1% to 5%		
U\$3	PJRC Teensy 3.2	TEENSY_3.1_DIL+4	TEENSY-DIL+4	Teensy 3.1 and 3.2 in a DIL package with the inner 4 pins		
U1	MCP1755	V_REG_LDOSMD	SOT-23-5	IC REG LINEAR 5V 300MA SOT23-5 LDO	Microchip Technology	MCP1755T-5002E/OT
U2	MAX829	MAX829EUK+T	SOT-23-5	Switched-Capacitor Voltage Inverters	Maxim	MAX829EUK+T
U3	OPA365	OPA365	SOT-23-5	General Purpose Amplifier 1 Circuit Rail-to-Rail SOT-23-5	Texas Instruments	OPA365AIDBVR
U4	LP38798	LP38798SD-ADJ	DNT12		Texas Instruments	LP38798SD-ADJ/NOPB
U6	AD5541LRZ	AD5541LRZ	SOIC-8	16-Bit Digital-to-Analog Converters	Analog Devices	AD5541LRZ
U7	OPA388	LTC2050IS8PBF	SOIC-8	Zero-Drift Operational Amplifi ers	Linear Technology	OPA388
U8	MAX6126AASA25+	Voltage Reference	SOIC-8	Series, Buried Zener Reference. Fixed 2.5V 0.04% 15mA 8-SOIC	Analog Devices Inc./Maxim	MAX6225ACSA+
U9	LTC6655BHLS8-5.0	Voltage Reference	LCC-8_LS8	Series Voltage Ref. IC Fixed 5V 0.025% 5 mA 8-CLCC	Linear Technology	LTC6655BHLS8-5.000
VD1	2.5K-2.5K	LM50	SOT-23	SOT-23 Voltage Divider		