

Designator	Quantity	Manufacturer	Part Number	Description	LibRef
C1	1	DNP	DNP	Polarized capacitor, pin 1 neg	50527
C2, C3, C4	3	Any	10u, 100V, X5R, 2220 (5750 metric) chip capacitor	Ceramic chip capacitor	20116
C5, C23, C25, C26, C27, C29, C31, C33, C34, C35, C36	11	Any	100n, 50V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20027
C6, C7, C8, C9	4	Any	100n, 100V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20110
C10	1	Any	10u, 10V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20111
C11	1	Any	25p, 50V, C0G/NP0, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20112
C12	1	Any	4.7u, 25V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20113
C13, C14, C15, C16	4	Any	1u, 25V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20077
C17, C18, C19, C20	4	Murata	GRM32ER71K475KE14L	Ceramic chip capacitor	30006
C21, C22	2	Any	100p, 100V, C0G/NP0, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20083
C24, C28, C30	3	Any	2.2n, 50V, C0G/NP0, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20056
C32	1	Any	4.7u, 10V, X5R, 0603 (1608 metric) chip capacitor	Ceramic chip capacitor	20084
D1, D2, D3, D4, D5	5	Diotec Semiconductor	SKL110	Schottky Diode, pin1 cathode	50491
D6, D7, D8, D9	4	Nexperia	BZX384-B13	Zener, pin1 cathode	50513
J1	1	Samtec	HLE-122-02-F-DV	Trinamic 44-pin connector	50289
J2	1	Metz Connect	AKL320-02	1X2 pin connector	50537
J3	1	Metz Connect	PT11304HBBN	1X4 pin connector	50511
J4	1	Any	1x2 2.54mm pin header	1X2 pin connector	50023
L1	1	Wuerth	744031100	Molded inductor	60031
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	Infineon	BSC030N08NS5ATMA1	N-ch Enh-MOSFET; 5,6,7,8D 4G 1,2,3S	50489
R1, R2, R3, R4, R8, R9, R13, R14, R18, R19, R31, R32	12	Any	10k, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10028
R5, R6, R7, R10, R11, R12, R15, R16, R17, R20, R21, R22	12	Any	2.2, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10041
R23	1	Any	12k, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10078
R24	1	Any	1.5k, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10152
R25, R26, R35, R36, R37, R38	6	Any	15m, 1%, 750mW, 2010 (5025 metric) chip resistor	Chip Resistor	10157
R27, R28	2	Any	100, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10016
R29, R39, R40	3	Any	1k, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10049
R30	1	Epcos	B57330V2103J260	Chip Resistor	40000
R33	1	Any	0, -, -, 0603 (1608 metric) chip resistor	Chip Resistor	10054
R34	1	DNP	DNP	Chip Resistor	40007
R41	1	Any	10, 1%, 100mW, 0603 (1608 metric) chip resistor	Chip Resistor	10002
U1	1	Atmel	AT25128B-SSHL	SPI Serial Flash Memory	50499
U2, U3, U4, U5	4	Texas Instruments	LM5109BSD/NOPB	High Voltage 1A Peak Half Bridge Gate Driver	50490
U6	1	Texas Instruments	LMR62014XMF/NOPB	LMR62014 SIMPLE SWITCHER® 20Vout, 1.4A Step-Up Voltage Regulator in SOT-23	50495
U7, U8, U9	3	Analog Devices	AD8418ABRMZ	Bidirectional, Zero Drift, Current Sense Amplifier	50496
U10	1	Texas Instruments	LP2985-33DBV	150-mA Low-noise LDO	50426
U11	1	Texas Instruments	REF3125	Series voltage reference	50316