

Designation	Qty	Description
C1	1	82pF 5%, 50V ceramic capacitor (0402) Murata GRM1555C1H820JA01D
C2	1	22uF 20%, 50V aluminum capacitor (6.6mm x 6.6mm) Panasonic EEE-FK1H220P
C3	1	4.7uF 10% 10V ceramic capacitor (0805) Murata GRM21BR71A475KA73K
C4, C5	2	47uF 10% 10V ceramic capacitor (1210) Murata GRM32ER71A476KE15L
C6	1	0.1uF 10% 10V ceramic capacitor (0603) Kemet C0603C104K8RACTU
C8	1	1uF 10% 50V ceramic capacitor (0603) Taiyo Yuden UMK107AB7105KA-T
C9	1	1uF 10% 16V ceramic capacitor (0603) Murata GRM188R71C105KA12D
C10	1	0.015uF 10% 100V ceramic capacitor (0603) TDK C1608X7R2A153K080AA
C11	1	0.039uF 10% 16V ceramic capacitor (0402) Murata GRM155R71C393KA01D
C14	1	1.2nF 5% 50V ceramic capacitor (0402) Kemet C0402C122J5GACTU
C15	1	1.2nF 10% 50V ceramic capacitor (0402) Samsung CL05B122KB5NNNC
C16	1	33nF 10% 16V ceramic capacitor (0402) Samsung Electro-Mechanics America, Inc. CL05B333KO5NNNC
C17	1	1nF 5% 50V ceramic capacitor (0402) Murata GRM1555C1H102JA01D
C18	1	470nF 10% 16V ceramic capacitor (0603) Murata GRM188R71C474KA88D
C19	1	15nF 10% 16V ceramic capacitor (0402) Murata GRM155R71C153KA01J
C20	1	1uF 10% 10V ceramic capacitor (0603) Murata GRM188R71A105KA61D
N1, N2	2	Trans MOSFET N-CH 30V 6.5A 8-Pin SOIC N T/R Vishay SI4800BDY-T1-GE3
N3	1	MOSFET N-CH 80V 30A 1212-8 Vishay Siliconix SIS468DN-T1-GE3
P1	1	MOSFET P-CH 100V 1A SOT-223 Infineon Technologies BSP322PH6327XTSA1
D3, D4	2	DIODE SCHOTTKY 30V 100MA SOD323 Central Semiconductor Corp CMDSH-3 TR
L1	1	4.7uH 20% 9.5A 16.5mOhm shielded inductor Vishay Dale IHLP4040DZER4R7M01
R2, R3, R9, R12	4	1 ohm 1% resistor (0402) Any
R4	1	24.9k ohm 1% resistor (0402) Any

R5	1	698k ohm 1% resistor (1206) Any
R6	1	22k ohm 1% resistor (0402) Any
R7	1	30.9k ohm 1% resistor (0402) Any
R10, R17	2	475 ohm 1% resistor (0402) Any
R11, R23	2	49.9k ohm 1% resistor (0402) Panasonic ERJ-2RKF4992X
R13, R14	2	10k ohm 1% resistor (0402) Any
R18	1	40.2k ohm 1% resistor (0402) Panasonic ERJ-2RKF4022X
R19	1	100 ohm 1% resistor (0402) Any
R20	1	499k ohm 1% resistor (0402) Panasonic ERJ-2RKF4993X
R21	1	.075ohm 1% current sense resistor (1206) Stackpole Electronics Inc. CSR1206FK75L0
R22	1	16.5k ohm 1% resistor (0402) Any
R24	1	22.1k ohm 1% resistor (0402) Any
R28	1	20k ohm 1% resistor (0402) Any
U1	1	Low IQ, Wide-Input Range, Active Clamp Current-Mode PWM Controller Maxim MAX17599ATE+
U2	1	Phototransistor (4PIN, SO) Avago ACPL-217-56AE
U3	1	Shunt Reg 1.24V 0.5% (SOT-23-3) Diodes Inc TLV431BFTA
R15	0	Not installed, resistor (0402)
C21	0	Not installed, ceramic capacitor (0402)
T2	1	Kmain(Ns/Np) = 0.441 custom transformer HanRun HR051434 or Wurth 750315945 or Sumida 12387-T070
ISOLATION	1	100M ohm 5% resistor (1206) Stackpole Electronics Inc. HMC1206JT100M
GND, GNDO, VIN, VOUT	4	Single Header Pin Samtech FWJ-01-01-T-S