MAXREFDES121# BOM RevA

Designation	Qty	Description
C1	1	150pF 5%, 50V, C0G ceramic capacitor (0402) Murata GRM1555C1H151J
C2	1	22uF 20%, 50V alumilum electronitic capacitor (6.3mm) Panasonic EEE-FK1H220P
C3	1	6.8uF 10%, 50V X7R ceramic capacitor (1812) TDK C4532X7R1H685K
C4	1	470uF 10%, 6.3V tantalum capacitor (2917) Kemet T510X477K006A
C5	1	47uF 10%, 6.3V X7R ceramic capacitor (1210) Murata GCM32ER70J476K
C6	1	0.1uF 10%, 16V, X7R ceramic capacitor (0402) Murata GRM155R71C104K
C8, C9	2	1uF 10%, 50V X7R ceramic capacitors (0805) Murata GRM21BR71H105K
C10	1	0.027uF 10%, 100V X7R ceramic capacitor (0805) Murata GRM21BR72A273K
C11	1	0.039uF 10%, 16V X7R ceramic capacitor (0402) Murata GRM155R71C393K
C14	1	3900pF 10%, 50V X7R ceramic capacitor (0402) Murata GRM155R71H392K
C15	1	1300pF 5%, 50V C0G ceramic capacitor (0603) Murata GRM1885C1H132J
C16	1	0.033uF 10%, 16V X7R ceramic capacitor (0402) Murata GRM155R71C333K
C17	1	1000pF 5%, 50V C0G ceramic capacitor (0402) Murata GRM1555C1H102J
C18	1	0.47uF 10%, 16V X7R ceramic capacitor (0603) Murata GCM188R71C474K
C19	1	0.027uF 10%, 10V X7R ceramic capacitor (0402) Murata GRM155R71A273K
C20	1	4.7uF 10%, 10V X7R ceramic capacitor (0805) Murata GRM21BR71A475K
C21	1	1000pF 10%, 2000V, X7R ceramic capacitor (1808) TDK C4520X7R3D102K130KA
D1	1	1.24-18V shunt voltage reference (SOT-23-3) Diodes Inc. TLV431BFTA
D3, D4	2	30V 100mA schottky diodes (SOD-323) Central Semi CMDSH-3
L1	1	1.2uH 20A, 1.8mOhm inductor (10.2mmx10.2mm) Wurth 744325120
N1, N2	2	20V 16A N-Ch MOSFETs (DIRECTFET) Infineon IRF6623TRPBF
N3	1	100V 18A N-Ch MOSFET (8-PowerTDFN) Infineon BSZ440N10NS3 G
P1	1	80V 2.2A P-Ch MOSFET (SOT23-3) Vishay SI2337DS-T1-GE3
Q1	1	Optocoupler transistor (SOIC 4) Avago ACPL-217-56AE
R2, R3, R9, R12	4	1 ohm 1% resistors (0603)
R4, R7	2	24.9k ohm 1% resistors (0402)
R5	1	698k ohm 1% resistor (0402)
R6	1	9.76k ohm 1% resistor (0402)
R10	1	140 ohm 1% resistor (0402)
R11, R23	2	49.9k ohm 1% resistors (0402)

R13, R14	2	10k ohm 1% resistors (0402)
R17	1	475 ohm 1% resistor (0402)
R18	1	40.2k ohm 1% resistor (0402)
R19	1	100 ohm 1% resistor (0402)
R20	1	499k ohm 1% resistor (0402)
R21	1	0.047 ohm 1% 1W resistor (2512)
R22	1	30.1k ohm 1% resistor (0402)
R24	1	22.1k ohm 1% resistor (0402)
R28	1	20k ohm 1% resistor (0402)
T1	1	1:0.291 transformer Hanrun HR102161
VIN, GND, VOUT, GNDO	4	Single header pins Samtech FWJ-01-01-T-S
U1	1	Active-Clamp Current-Mode PWM Controller (16 TQFN-EP) Maxim MAX17599ATE+
PCB	1	PC board: MAXREFDES121# 24V Input 3.3V Output 33W Converter