

## MAXREFDES124# Reference Design BOM RevA

Designation	Qty	Description
C1,C18,C19,C20	4	22uF 10%, 25V, X7R ceramic capacitor (1210) Murata GRM32ER71E226KE15
C2,C3	2	10uF 10%, 50V, X5R ceramic capacitor (1206) Murata GRM31CR61H106KA12L
C4	1	0.068uF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H683KE14#
C5	1	390pF 5%, 100V, X7R ceramic capacitor (0603) Murata GRM188R72A391JA01
C6	1	1uF 10%, 50V, X7R ceramic capacitor (0603) Taiyo Yuden UMK107AB7105KA
C7,C12,C13	3	2.2uF 10%, 50V, X7R ceramic capacitor (0805) TDK C2012X7R1H225K125AE
C8	1	22nF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H223KA12#
C9	1	0.033uF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H333KE14D
C10	1	150pF 5%, 50V, C0G ceramic capacitor (0402) Murata GRM1555C1H151JA01#
C11	1	1000pF 20%, 5000V,X7R ceramic capacitor(3640) AVX 3640KC102MAT9A
C14,C15,C16,C17,C21	5	150uF 20%, 6.3V, X5R ceramic capacitor (1206) Murata GRM31CR60J157ME11#
VIN, GNDO, PGND, VOUT	4	CONNECTOR; MALE; THROUGH HOLE; POWER HEADER AND BOARD STACKER; STRAIGHT; 1PIN SAMTEC FWJ-01-01-T-S
D1	1	100V 1A Schottky Diode (SOD-123FL) Diodes SMD110PL
D2	1	100V 300mA Schottky Diode (SOD123) MICRO COMMERCIAL COMPONENTS 1N4148W-7-F
D3	1	6.2V Zener Diode (SMA) Diodes SMAZ6V2-13-F
N1	1	60V 25A N-Ch MOSFET (LFPK) Renesas RJK0651DPB
N2	1	40V 73A 5.9mohm N-Ch MOSFET (TDSON-8) infineon BSC059N04LS G
R1,R2	2	7.5k ohm, 5% resistor (1210) Any Any
R3	1	470 ohm, 5% resistor (1210) Any Any
R4	1	0 ohm 5% resistor (0402) Any Any
R5,R10	2	10k ohm 1% resistor (0402) Any Any
R6	1	20k ohm 1% resistor (0402) Any Any
R7	1	150k ohm, 1% resistor (0402) Any Any
R8	1	100k ohm 1% resistor (0603) Any Any

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R9	1	5.6k ohm 1% resistor (0603) Any Any
R12	1	120k ohm 1% resistor (0402) Any Any
R13	1	51k ohm 1% resistor (0402) Any Any
R14	1	0.015 ohm 1W 1% resistor (1206) Panasonic ERJ8CWFR015V
R15	1	33k ohm 1% resistor (0402) Any Any
R16	1	2.2k ohm 1% resistor (0402) Any Any
R17	1	10 ohm 5% resistor (0402) Any Any
R18	1	1.5k ohm 1% resistors (0402) Any Any
R19	1	68k ohm 1% resistor (0402) Any Any
R20	1	0 ohm 5% resistor (0402) Any Any
R21	1	0.02 ohm 1W 1% resistor (1206) Panasonic ERJ8CWFR020V
R22	1	0k ohm 1% resistor (0603) Any Any
U1	1	No-Opto Isolated Flyback Controller (16 TQFN) Maxim MAX17690ATE+
U2	1	Secondary Side Synchronous MOSFET Driver (Thin SOT23-6) Maxim MAX17606AZT+
T1	1	OUTPUT: 5.5V; 4.0A AT 150KHZ; TURNS RATIO: 2:1; 3.20μH ±10%,FLYBACK TRANSFORMER HanRun HR021698 Rev02 Würth 750316327rPR6B
R11	0	Not installed, resistor (0402)
PCB	1	PC board: MAXREFDES124# 12VIN 5.5VOUT 22W Flyback Converter