

MAXREFDES112 BOM

Designation	Qty	Description
C1	1	22uF 20%, 50V aluminum capacitor (6.6mm x 6.6mm) Panasonic EEE-FK1H220P
C2	1	3.3uF 10%, 50V, X7R ceramic capacitor (1210) Murata GRM32DR71H335KA88L
C3	1	0.22uF 10%, 50V, X7R ceramic capacitor (0603) Murata GRJ188R71H224KE11D
C4	1	0.015uF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H153KA12J
C5	1	0.039uF 10%, 10V, X7R ceramic capacitor (0402) Murata GRM155R71A393KA01D
C6	1	680pF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H681KA01D
C7	1	1uF 10%, 10V, X5R ceramic capacitor (0402) Murata GRM155R61A105KE15D
C8	0	Not Installed, capacitor (0402)
C9 - C11	3	22uF 20%, 16V, X5R ceramic capacitor (0805) Murata GRM219R61C226ME15L
C12	1	22pF 5%, 25V, C0G ceramic capacitor (0402) Murata GRM1555C1E220JA01D
C14	1	0.1uF 10%, 16V, X7R ceramic capacitor (0402) Murata GRM155R71C104KA88D
C16	1	470pF 10%, 50V, X7R ceramic capacitor (0402) Murata GRM155R71H471KA01D
C17	1	10uF 10%, 16V, X5R ceramic capacitor (0603) Murata GRT188R61C106KE13D
C18	1	5600pF, 10%, 3kV, X7R (2220) AVX 2220HC562KAT1A
C19	1	3300pF, 10%, 16V, X7R ceramic capacitor (0402) Murata GRM15XR71C332KA86D
GND, GNDO, VIN, VOUT	4	Single header pin Samtech FWJ-01-01-T-S
D1	1	100V 1A Schottky Diode (SOD123FL) Micro Commercial SMD110PL-TP
D2	1	60V 2A Schottky Diode (SOD123FL) Diodes B260A-13-F
D3	1	50V 200mA Schottky Diode (DO-213AC) NXP BAS86,115
N1	1	150V 2.2A N-Ch MOSFET (1212-8) Vishay SI7818DN-T1-E3
R1	1	2k ohm 1% 2W resistor (2512) TE Connectivity 5-2176070-6
R2, R20	0	Not Installed, resistor (0402)
R3	1	22.1k ohm 1% resistor (0402) Panasonic ERJ-2RKF2212X
R4	1	49.9k ohm 1% resistor (0402) Panasonic ERJ-2RKF4992X
R5	1	274k ohm 1% resistor (0402) Panasonic ERJ-2RKF2743X

R6	1	11.3k ohm 1% resistor (0402) Panasonic ERJ-2RKF1132X
R7	1	9.76k ohm 1% resistor (0402) Panasonic ERJ-2RKF9761X
R8	1	100 ohm 1% resistor (0402) Panasonic ERJ-2RKF1000X
R9	1	1 ohm 1% resistor (0402) Vishay CRCW04021R00FKED
R10	1	20k ohm 1% resistor (0402) Panasonic ERJ-2RKF2002X
R11	1	120m ohm 1% resistor (1206) Panasonic ERJ-8RSFR12V
R12	1	10k ohm, 1% resistor (0402)
R13	1	475 ohm 1% resistor (0402) Panasonic ERJ-2RKF4750X
R14	1	1.82k ohm 1% resistor (0402) Panasonic ERJ-2RKF1821X
R15	1	24.9k ohm 1% resistor (0402) Panasonic ERJ-2RKF2492X
R17	1	2.87k ohm 1% resistor (0402) Panasonic ERJ-2RKF2871X
R21	1	0 ohm 5% resistor (0402)
R22	1	30k ohm 1% resistor (0402)
T1	1	1:0.789 Transformer Halo TGSP-P145EP10LF Würth Electronics 750315882 HanRun HR051075 Sumida 12387T070
U1	1	Flyback and Boost Regulators Controller (16 TQFN) Maxim MAX17597ATE+
U2	1	V-Ref Adjustable 1.24V to 16V 20mA (SOT23-3) ON Semiconductor TLV431BSN1T1G
U3	1	Optocoupler 3kV Transistor (4 SOIC) Avago ACPL-217-50AE
PCB	1	PC board: MAXREFDES112# 24VIN 12VOUT 10W Flyback Converter