

Input Power Connector

J8 2157601002 600VAC/DC 13A HDR_2157601002

D18 SMCJ30CAQ-13-F 48.4V 31A SMC

C31 0.1uF 100V ±5% C0603

C32 0.1uF 100V ±5% C0603

C37 0.1uF 100V ±5% C0603

Q1 IAU64N08S5L075 80V 64A (Tj) PG-TDSON-8-33

U10 LM74700QDBVRQ1 3.2V ~ 65V SOT-23-6

L1 3.3uH 18A ±20% IND_SRP1265A

C36 10nF 100V ±10% C0603

C73 10uF 100V ±10% C1210

C74 DNI C1210

C33 39uF 63V ±20% CAP_A780KN396M1JLAS040

C34 DNI CAP_A780KN396M1JLAS040

C30 220uF 50V ±20% CAP_EXV227M050S9PAA

R32 0.4 1/4W ±1% R1206

C35 100uF 50V ±20% CAP_A782MN107M1HLAS030

TP1

TP2

TP3

5V/12A buck DC DC Converter

D20 BZT52C15-7-F 15V SOD-123

R34 30k 1/10W ±1% R0603

R35 16k 1/10W ±1% R0603

R38 1k 1/10W ±1% R0603

U11 FOD817A3SD 4-SMD_OPTO_6X4P5MM

U12 LM5145QRGYRQ1 5.5V ~ 75V 20-VFQFN-ExposedPad

Q2 DMP10H4D2S-7 100V 270mA (Ta) SOT-23-3

R36 49.9k 1/10W ±1% R0603

R40 11.3k 1/10W ±1% R0603

R37 2.1 1/10W ±1% R0603

R39 0ohm Jumper R0603

Q3 IAU120N06S5L032 60V 120A (Tj) PG-TDSON-8-34

L2 3.3uH 18A ±20% IND_SRP1265A

R41 DNI R0603

C47 DNI C0603

R42 20k 1/10W ±0.1% R0603

R43 412 1/10W ±0.1% R0603

C48 1500pF 50V ±10% C0603

C49 47uF 10V ±10% C1210

C50 47uF 10V ±10% C1210

C51 DNI C1210

C52 47uF 10V ±10% C1210

C53 47uF 10V ±10% C1210

C54 DNI C1210

R50 3.83k 1/10W ±0.1% R0603

Q4 IAU120N06S5L032 60V 120A (Tj) PG-TDSON-8-34

R52 0ohm Jumper R0603

C58 8200pF 50V ±10% C0603

R51 8.25k 1/10W ±0.1% R0603

C59 150pF 50V ±5% C0603

R46 40.2k 1/10W ±0.1% R0603

C55 0.056uF 50V ±10% C0603

R47 DNI R0603

R48 20k 1/10W ±1% R0603

R49 20k 1/10W ±1% R0603

C57 2.2uF 50V ±10% C0805

U13 LT1084CN 5.0V 1.5A SOT-23-5

C60 10nF 100V ±10% C0603

C61 220uF 35V ±20% CAP_A782MS227M1VLAS020

TP4

R33 1k ±1% 1/10W R0603

D19 LTST-C191KGKT 2V 20mA D0603

D21 BZT52C2V0-7-F 2V 500 mW SOD-123

5V Power Supply

Size A3

Document Number <Doc>

Rev A

Date: Monday, February 17, 2025

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