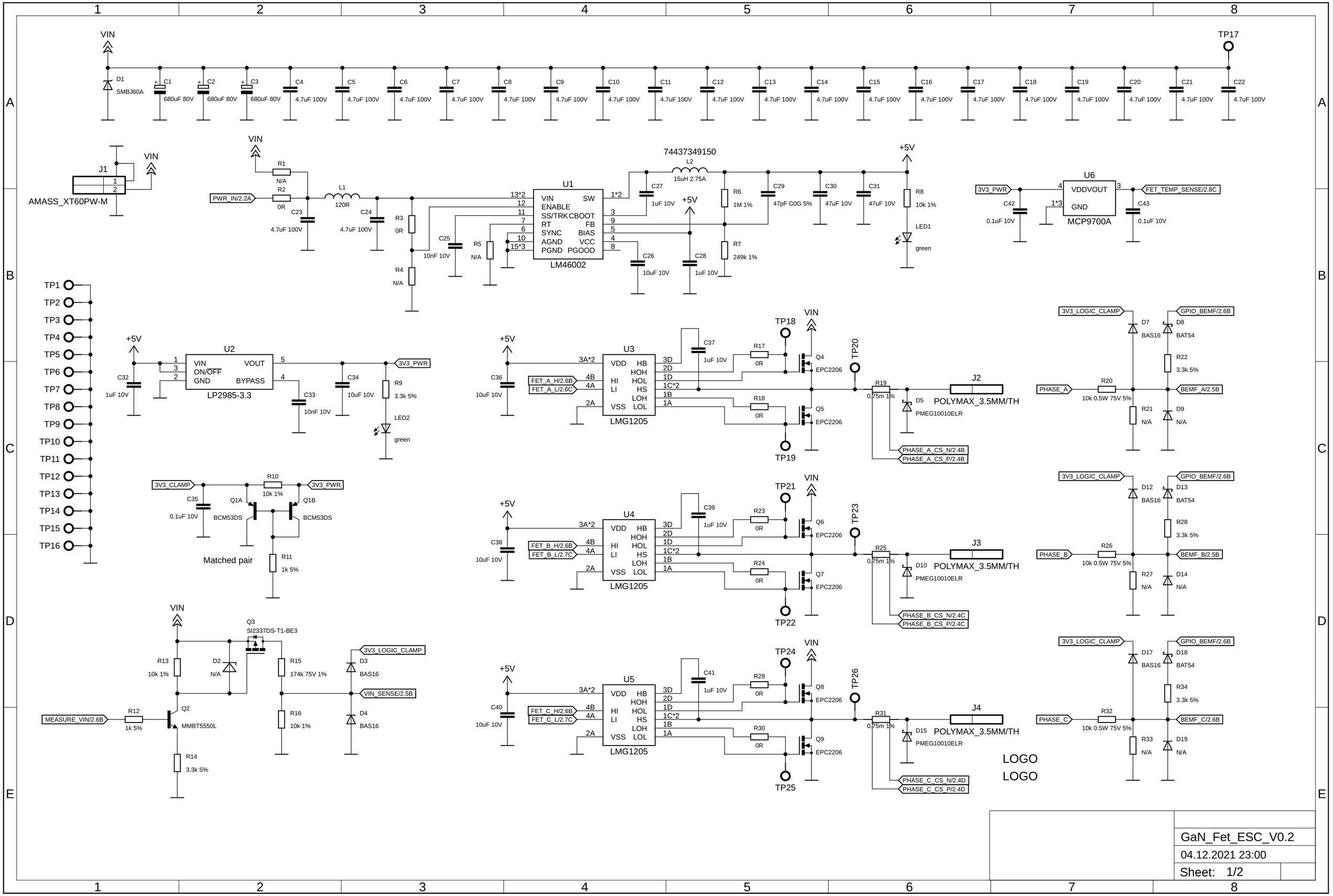
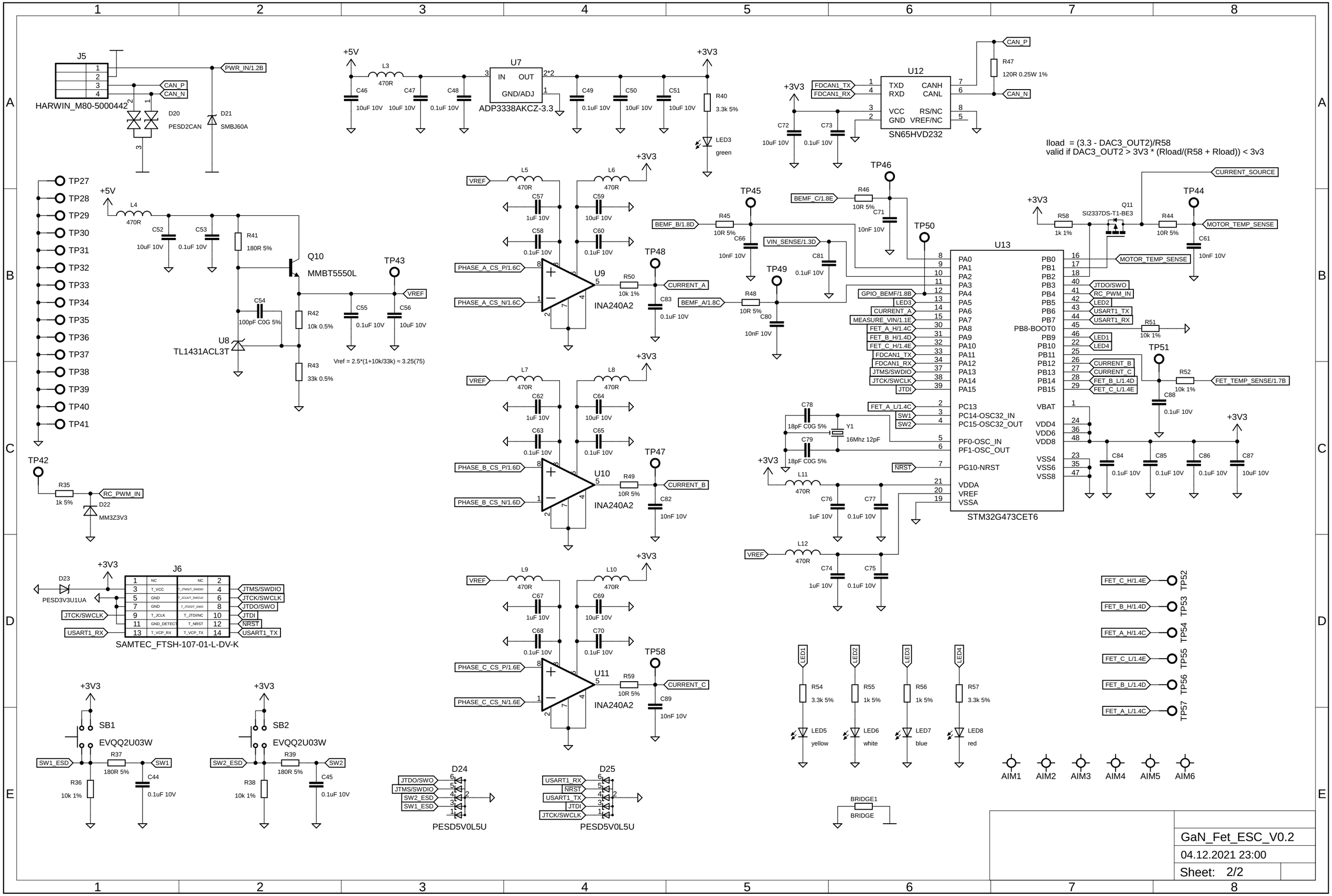

VIN
TP17
D1 SMBJ60A
C1 680uF 80V
C2 680uF 80V
C3 680uF 80V
C4 4.7uF 100V
C5 4.7uF 100V
C6 4.7uF 100V
C7 4.7uF 100V
C8 4.7uF 100V
C9 4.7uF 100V
C10 4.7uF 100V
C11 4.7uF 100V
C12 4.7uF 100V
C13 4.7uF 100V
C14 4.7uF 100V
C15 4.7uF 100V
C16 4.7uF 100V
C17 4.7uF 100V
C18 4.7uF 100V
C19 4.7uF 100V
C20 4.7uF 100V
C21 4.7uF 100V
C22 4.7uF 100V
J1
AMASS_XT60PW-M
PWR_IN/2.2A
R1 N/A
R2 0R
C23 4.7uF 100V
L1 120R
C24 4.7uF 100V
R3 0R
R4 N/A
C25 10nF 10V
R5 N/A
U1
LM46002
VIN
ENABLE
SS/TRK
RT
SYNC
AGND
PGND
SW
CBOOT
FB
BIAS
VCC
PGOOD
74437349150
L2 15uH 2.75A
C27 1uF 10V
C26 10uF 10V
C28 1uF 10V
R6 1M 1%
R7 249k 1%
C29 47pF C0G 5%
C30 47uF 10V
C31 47uF 10V
+5V
R8 10k 1%
LED1 green
U6
MCP9700A
3V3_PWR
VDDVOUT
GND
FET_TEMP_SENSE/2.8C
C42 0.1uF 10V
C43 0.1uF 10V
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
U2
LP2985-3.3
VIN
ON/OFF
GND
VOUT
BYPASS
C32 1uF 10V
C33 10nF 10V
C34 10uF 10V
R9 3.3k 5%
LED2 green
3V3_CLAMP
R10 10k 1%
C35 0.1uF 10V
Q1A BCM53DS
Q1B BCM53DS
Matched pair
R11 1k 5%
U3
LMG1205
VDD
HI
LI
VSS
HB
HOH
HOL
HS
LOH
LOL
C36 10uF 10V
C37 1uF 10V
FET_A_H/2.6B
FET_A_L/2.6C
TP18
TP19
TP20
R17 0R
R18 0R
Q4 EPC2206
Q5 EPC2206
R19 0.75m 1%
D5 PMEG10010ELR
J2
POLYMAX_3.5MM/TH
PHASE_A_CS_N/2.4B
PHASE_A_CS_P/2.4B
GPIO_BEMF/2.6B
D7 BAS16
D8 BAT54
R22 3.3k 5%
PHASE_A
R20 10k 0.5W 75V 5%
R21 N/A
D9 N/A
BEMF_A/2.5B
U4
LMG1205
C38 10uF 10V
C39 1uF 10V
FET_B_H/2.6B
FET_B_L/2.7C
TP21
TP22
TP23
R23 0R
R24 0R
Q6 EPC2206
Q7 EPC2206
R25 0.75m 1%
D10 PMEG10010ELR
J3
POLYMAX_3.5MM/TH
PHASE_B_CS_N/2.4C
PHASE_B_CS_P/2.4C
D12 BAS16
D13 BAT54
R28 3.3k 5%
PHASE_B
R26 10k 0.5W 75V 5%
R27 N/A
D14 N/A
BEMF_B/2.5B
Q3 SI2337DS-T1-BE3
R13 10k 1%
D2 N/A
R15 174k 75V 1%
R16 10k 1%
3V3_LOGIC_CLAMP
D3 BAS16
D4 BAS16
VIN_SENSE/2.5B
MEASURE_VIN/2.6B
R12 1k 5%
Q2 MMBT5550L
R14 3.3k 5%
U5
LMG1205
C40 10uF 10V
C41 1uF 10V
FET_C_H/2.6B
FET_C_L/2.7C
TP24
TP25
TP26
R29 0R
R30 0R
Q8 EPC2206
Q9 EPC2206
R31 0.75m 1%
D15 PMEG10010ELR
J4
POLYMAX_3.5MM/TH
PHASE_C_CS_N/2.4D
PHASE_C_CS_P/2.4D
D17 BAS16
D18 BAT54
R34 3.3k 5%
PHASE_C
R32 10k 0.5W 75V 5%
R33 N/A
D19 N/A
BEMF_C/2.6B
LOGO
LOGO
GaN_Fet_ESC_V0.2
04.12.2021 23:00
Sheet: 1/2



GaN_Fet_ESC_V0.2

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