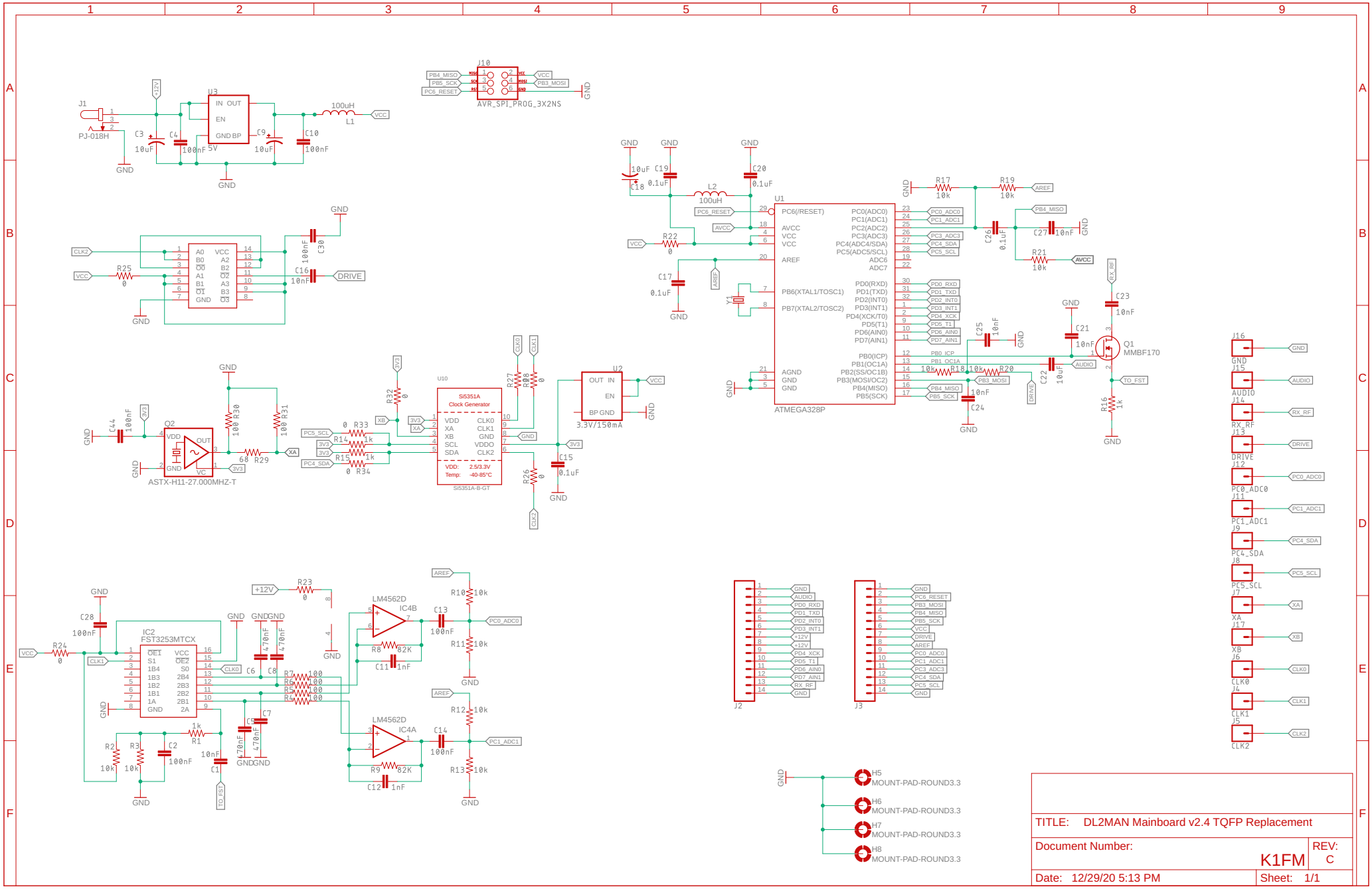
J1
PJ-018H
+12V
U3
IN OUT
EN
GND BP
5V
C3 10uF
C4 100nF
C9 10uF
C10 100nF
100uH
L1
VCC
GND
J10
AVR_SPI_PROG_3X2NS
PB4_MISO
PB5_SCK
PC6_RESET
PB3_MOSI
CLK2
R25 0
A0 VCC
B0 A2
B2
A1
B1 A3
B3
GND
C30 100nF
C16 10nF
DRIVE
U1
ATMEGA328P
PC6(/RESET)
AVCC
VCC
AREF
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
AGND
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
C18 10uF
C19 0.1uF
C20 0.1uF
L2 100uH
R22 0
C17 0.1uF
X1
R17 10k
R19 10k
R21 10k
C26 0.1uF
C27 10nF
C23 10nF
C21 10nF
C25 10nF
C24 10nF
C22 10uF
R18 10k
R20 10k
Q1 MMBF170
R16 1k
RX_RF
AUDIO
TO_FST
DRIVE
Q2
ASTX-H11-27.000MHZ-T
C44 100nF
R30 100
R31 100
R29 68
R32 0
U10
Si5351A
Clock Generator
VDD CLK0
XA CLK1
XB GND
SCL VDDO
SDA CLK2
VDD: 2.5/3.3V
Temp: -40-85°C
Si5351A-B-GT
R27 0
R28 0
R26 0
R33 0
R34 0
R14 1k
R15 1k
U2
OUT IN
EN
BP GND
3.3V/150mA
C15 0.1uF
IC2
FST3253MTCX
OE1 VCC
S1 OE2
1B4 S0
1B3 2B4
1B2 2B3
1B1 2B2
1A 2B1
GND 2A
C28 100nF
R24 0
R23 0
C6 470nF
C8 470nF
C5 470nF
C7 470nF
R7 100
R6 100
R5 100
R4 100
R1 1k
R2 10k
R3 10k
C2 100nF
C1 10nF
LM4562D
IC4B
IC4A
R8 82K
R9 82K
C11 1nF
C12 1nF
C13 100nF
C14 100nF
R10 10k
R11 10k
R12 10k
R13 10k
PC0_ADC0
PC1_ADC1
J2
J3
J16 GND
J15 AUDIO
J14 RX_RF
J13 DRIVE
J12 PC0_ADC0
J11 PC1_ADC1
J9 PC4_SDA
J8 PC5_SCL
J7 XA
J17 XB
J6 CLK0
J4 CLK1
J5 CLK2
H5 MOUNT-PAD-ROUND3.3
H6 MOUNT-PAD-ROUND3.3
H7 MOUNT-PAD-ROUND3.3
H8 MOUNT-PAD-ROUND3.3
TITLE: DL2MAN Mainboard v2.4 TQFP Replacement
Document Number:
K1FM
REV: C
Date: 12/29/20 5:13 PM
Sheet: 1/1