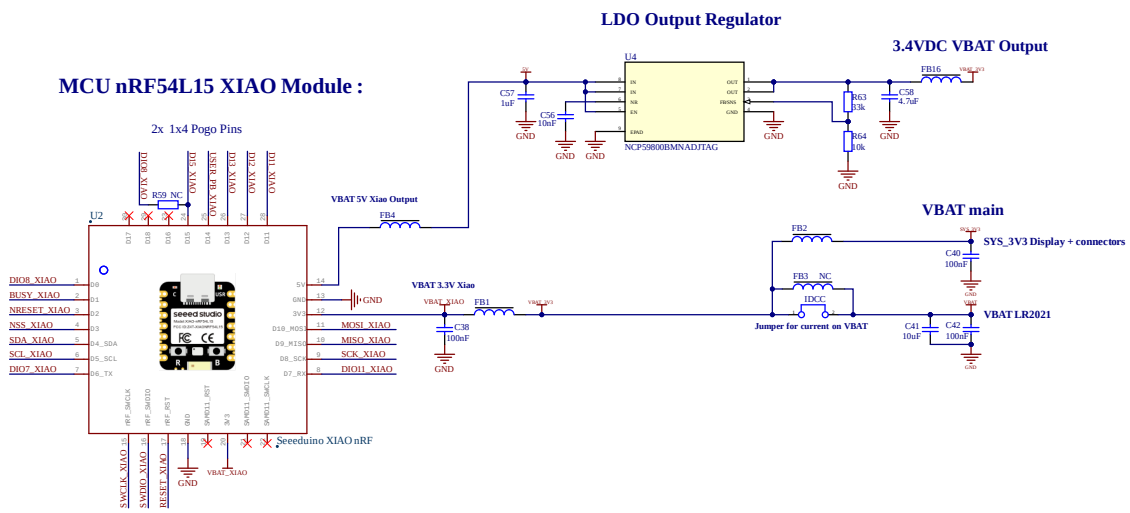
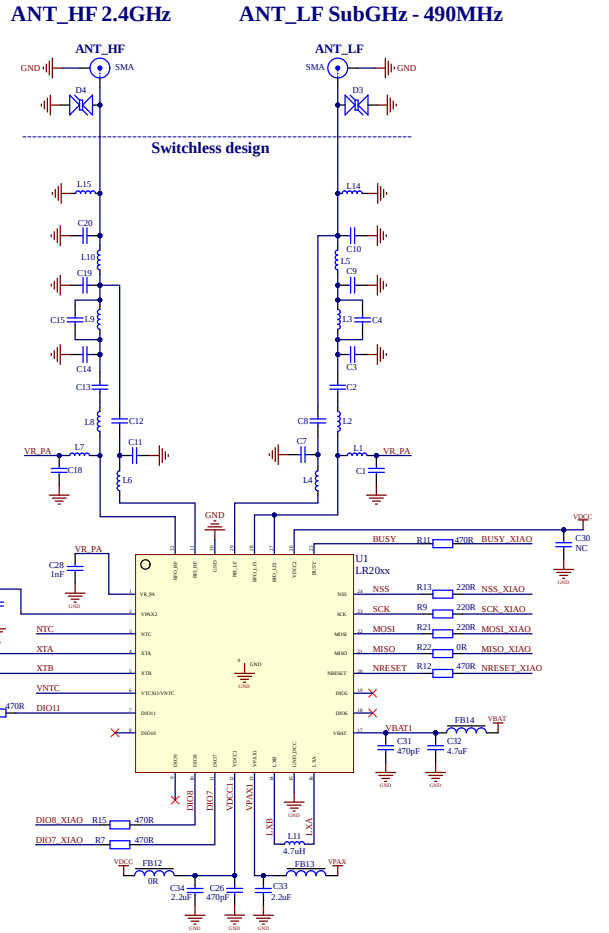
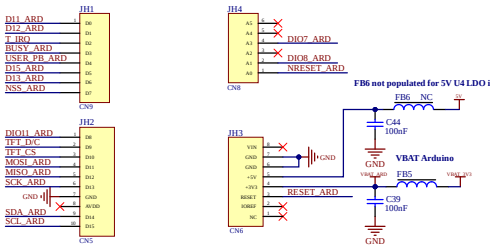
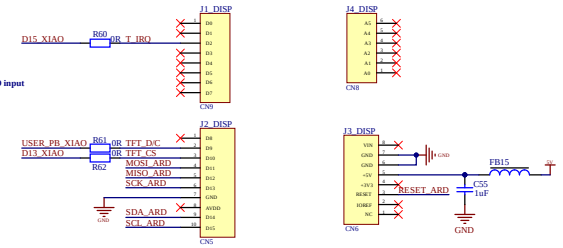
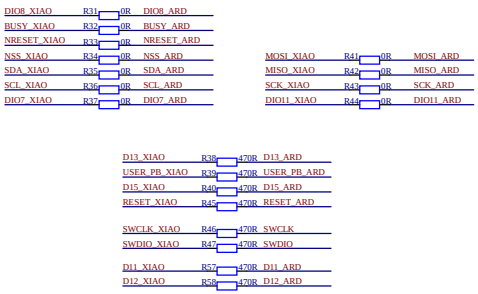
LR20xx Evaluation Module @490MHz and 2.4HGz - RF Part

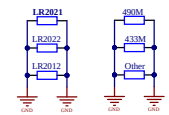












Semtech Logos:

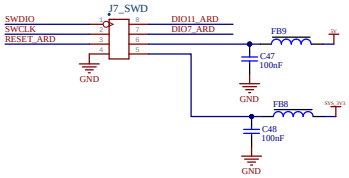
Custom RF Shield:

Shield

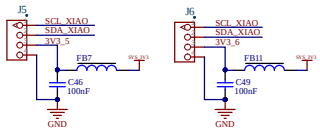
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Size: A2	Number: PCB_E790V01A	Revision: V1a
Date: 4/09/2026		Sheet: 1/1
File: C:\Users\...\LR2021_e790v01a_490_eval_module.SchDoc		Drawn By:

LR20xx Evaluation Module @490MHz and 2.4HGz - connectors and OLED display

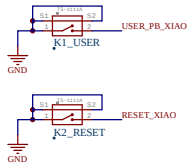
SWD Xiao - Debug



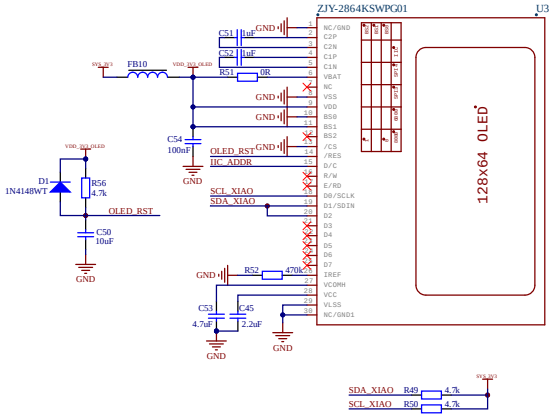
Grove connectors for I2C sensors



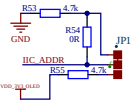
RESET MCU and User Buttons



I2C OLED display



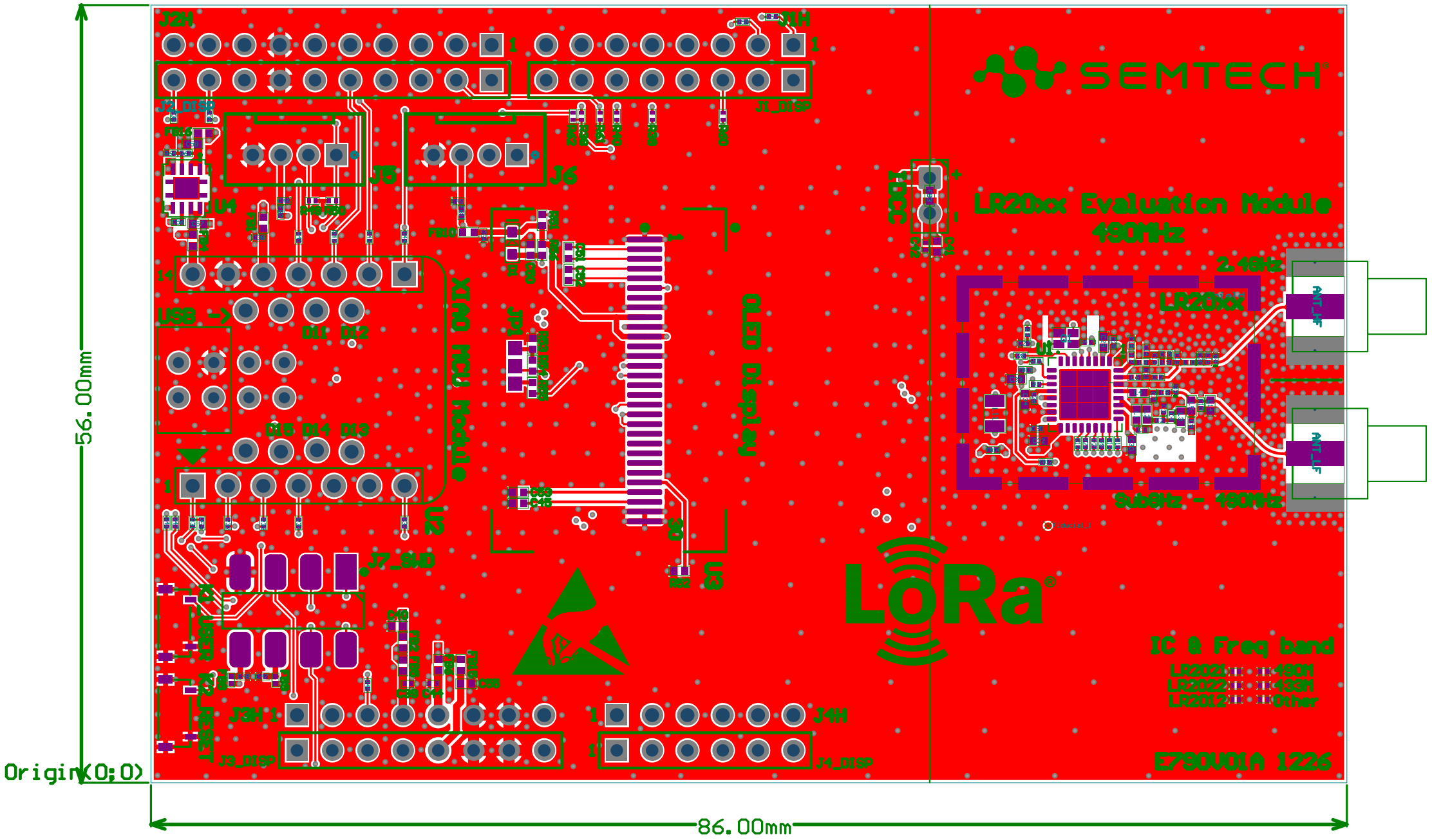
I2C Address

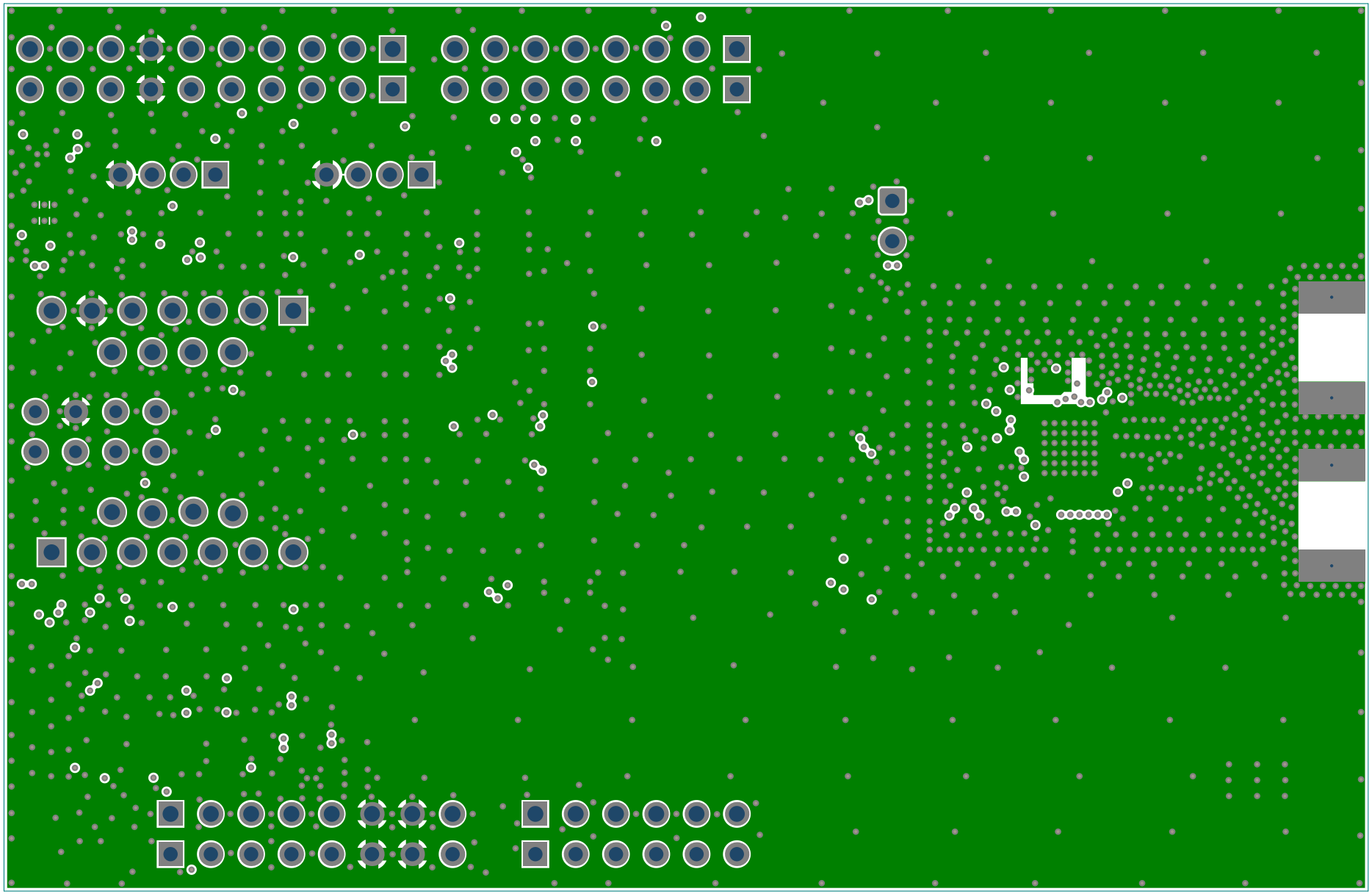


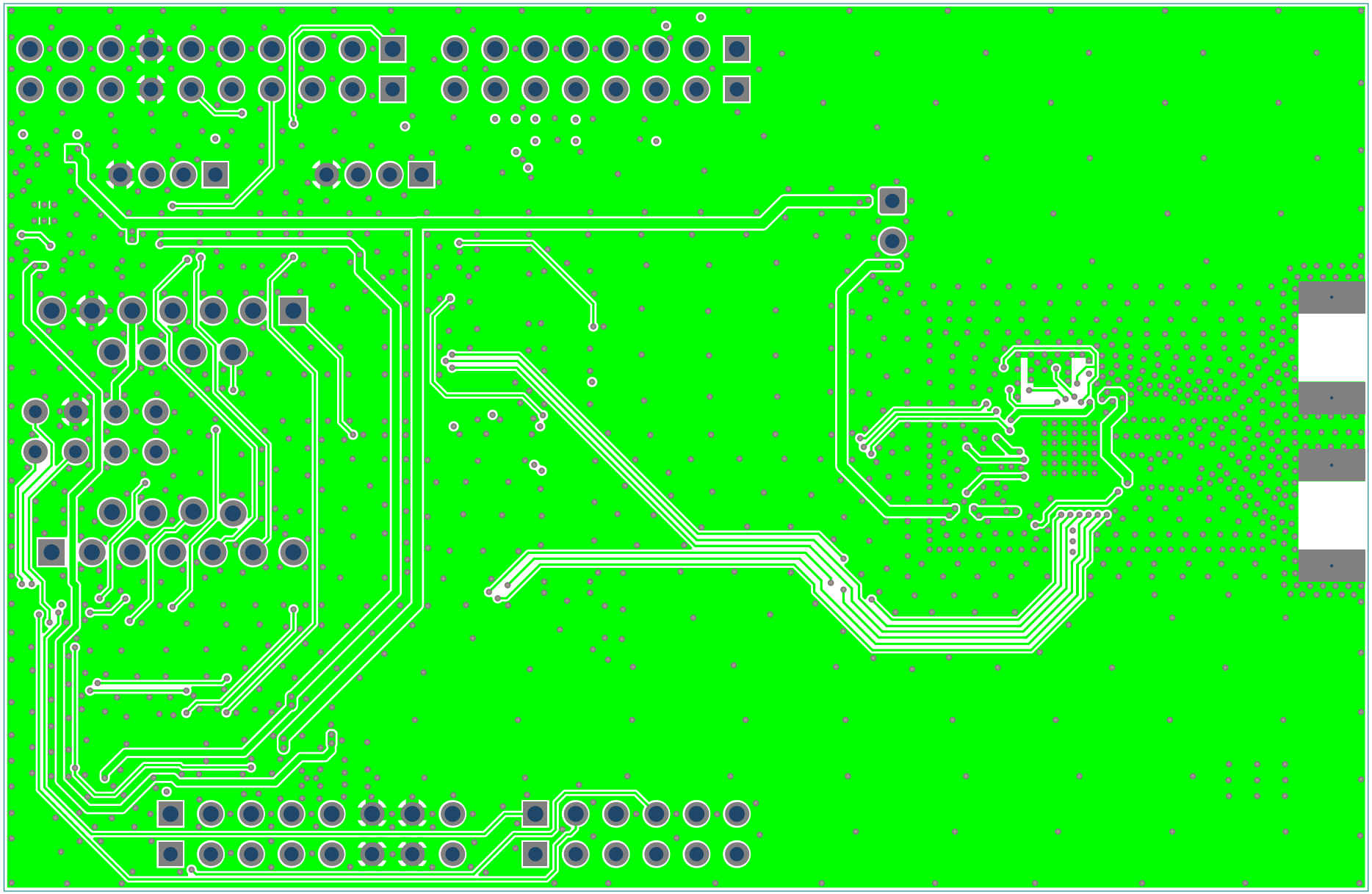
SEMTECH

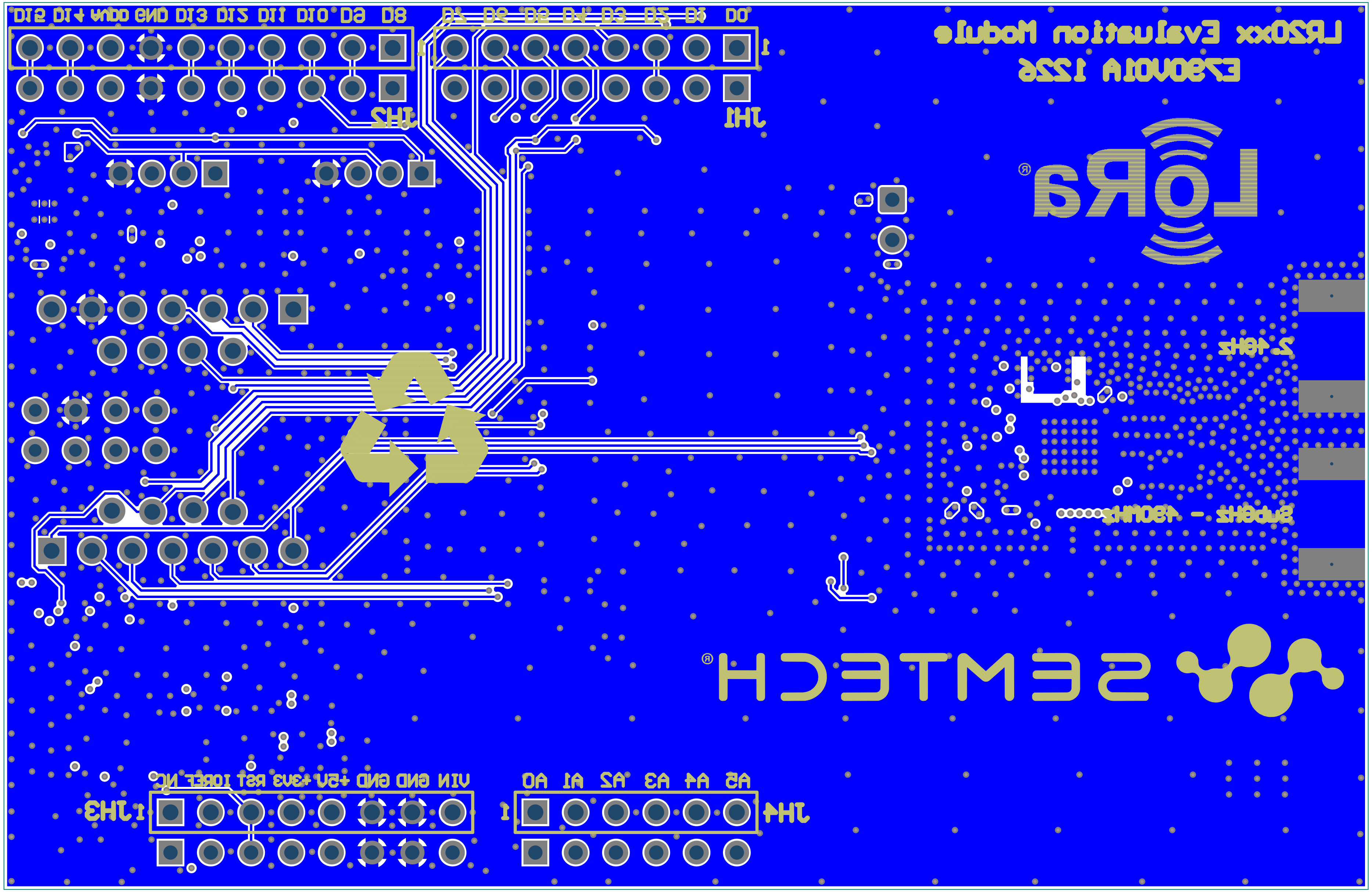
LoRa

Title: LR20xx Evaluation Module @ 490MHz and 2.4HGz		
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Date: 4/08/2026	Sheet of: 1/1	
File: C:\Users\...\LR2021_e790v01a_490_eval_module_accessories.SchDoc	Drawn By:	


56.00mm
86.00mm
Origin(0;0)
SEMTECH
LR20xx Evaluation Module
480MHz
2.4GHz
LR20XX
SubGHz - 480MHz
XIAO MCU Module
OLED Display
LoRa
IC & Freq band
LR2021 : 480M
LR2022 : 480M
LR2012 : Other
E790V01A 1226
J2H
J1H
J1_DISP
J5
J6
J7_SWD
J3H
J3_DISP
J4H
J4_DISP
USB
D1 D2
D5 D4 D3
U4
U2
U3
U1
ANT_RF
ANT_RF







LR20xx Evaluation Module
E790V01A 1226
LoRa®
SEMTECH®
2.4GHz
SubGHz - 490MHz
JH1
D0 D1 D2 D3 D4 D5 D6 D7
JH2
D8 D9 D10 D11 D12 D13 GND VADC D14 D15
JH3
NC IOREF RST +3V3 +5V GND GND VIN
JH4
A0 A1 A2 A3 A4 A5