

TITLE Remote IMU

PROJ Sawyer

CLIENT Facebook

REV 1

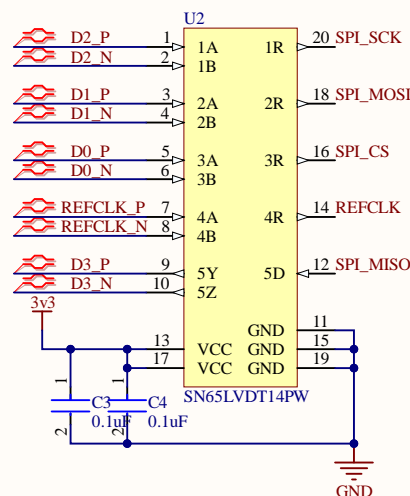
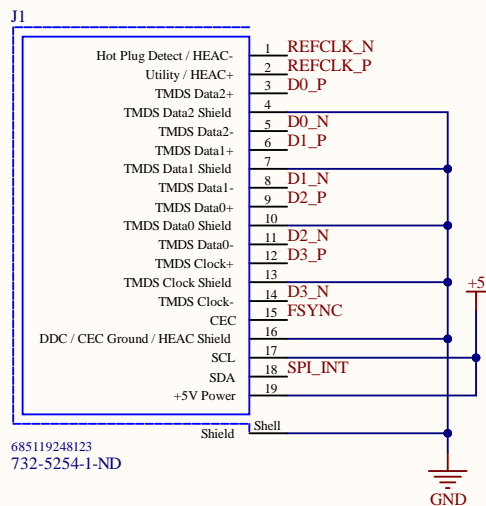
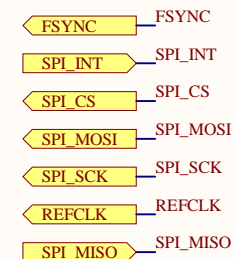
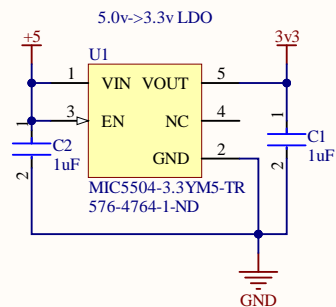
DATE 6/12/2020

SHEET 1 OF 3

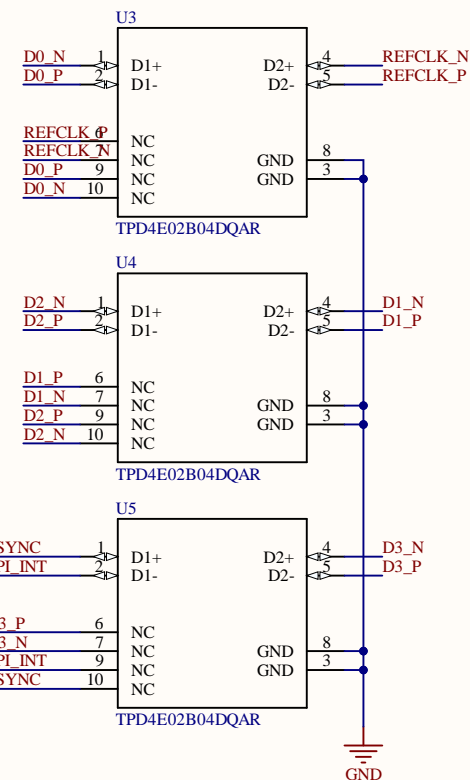
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NOTE: NC Pins are meant for routing passthrough of differential pairs



TITLE LVDS<>SPI Interface

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REV 1

DATE 6/25/2020

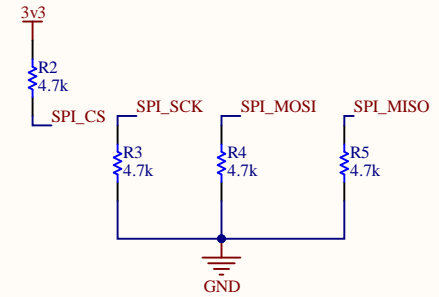
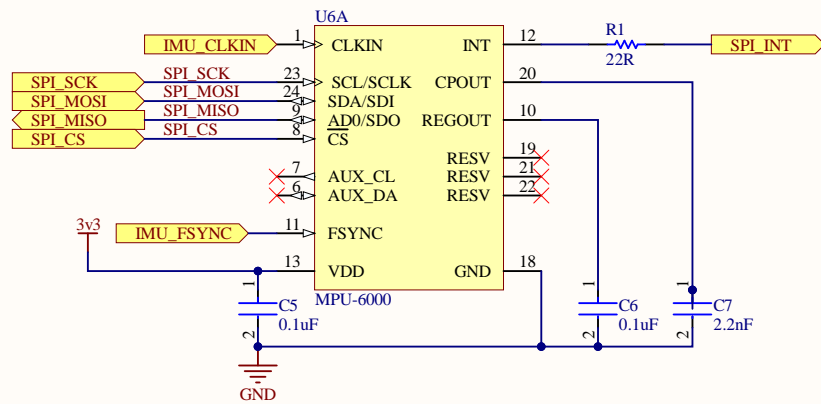
SHEET 2 OF 3

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Note: MPU6000 reference circuit as described in section 7.2 Pg 22 of the MPU6000/6050 datasheet



TITLE MPU6000 IMU

PROJ Sawyer

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REV 1

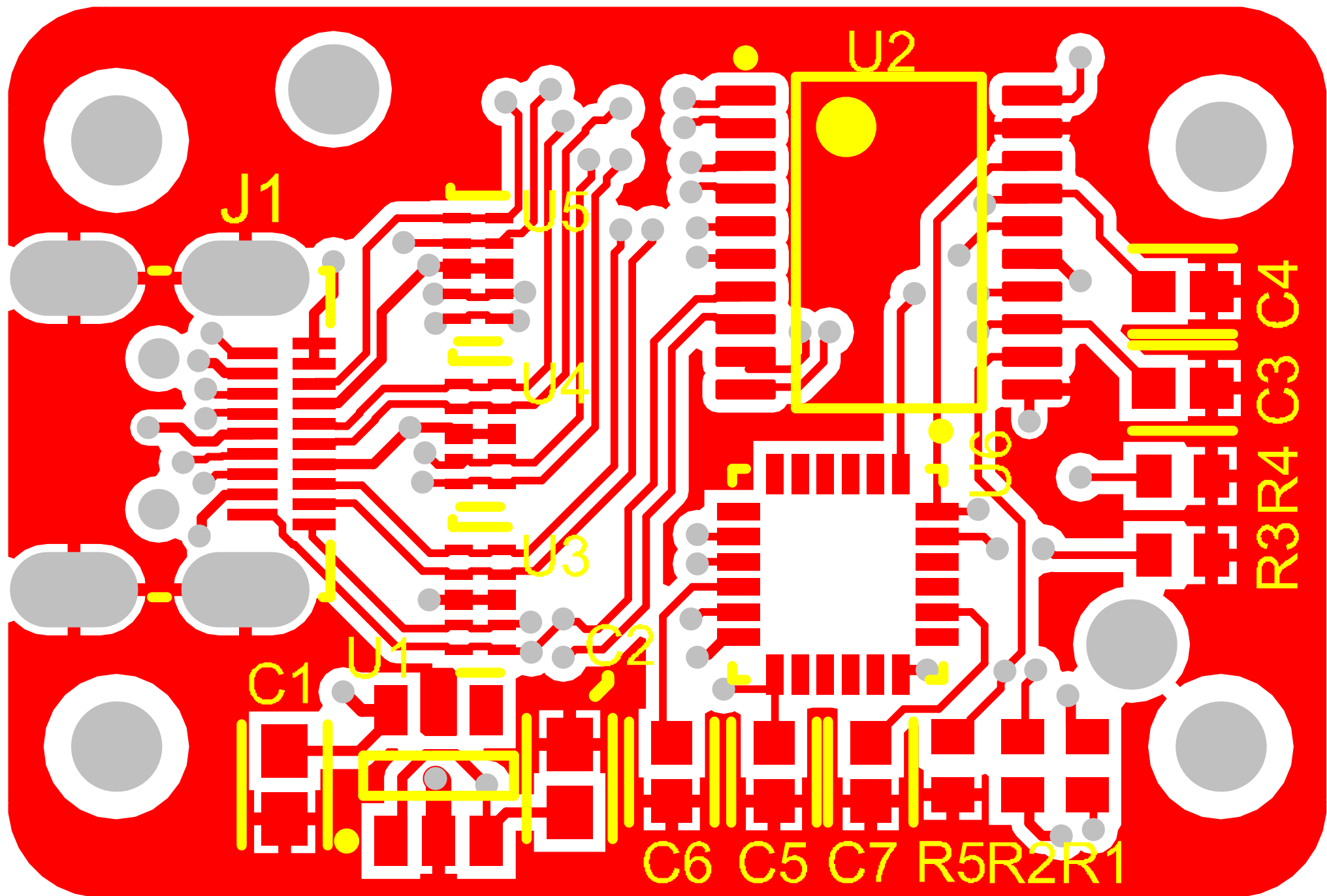
DATE 6/25/2020

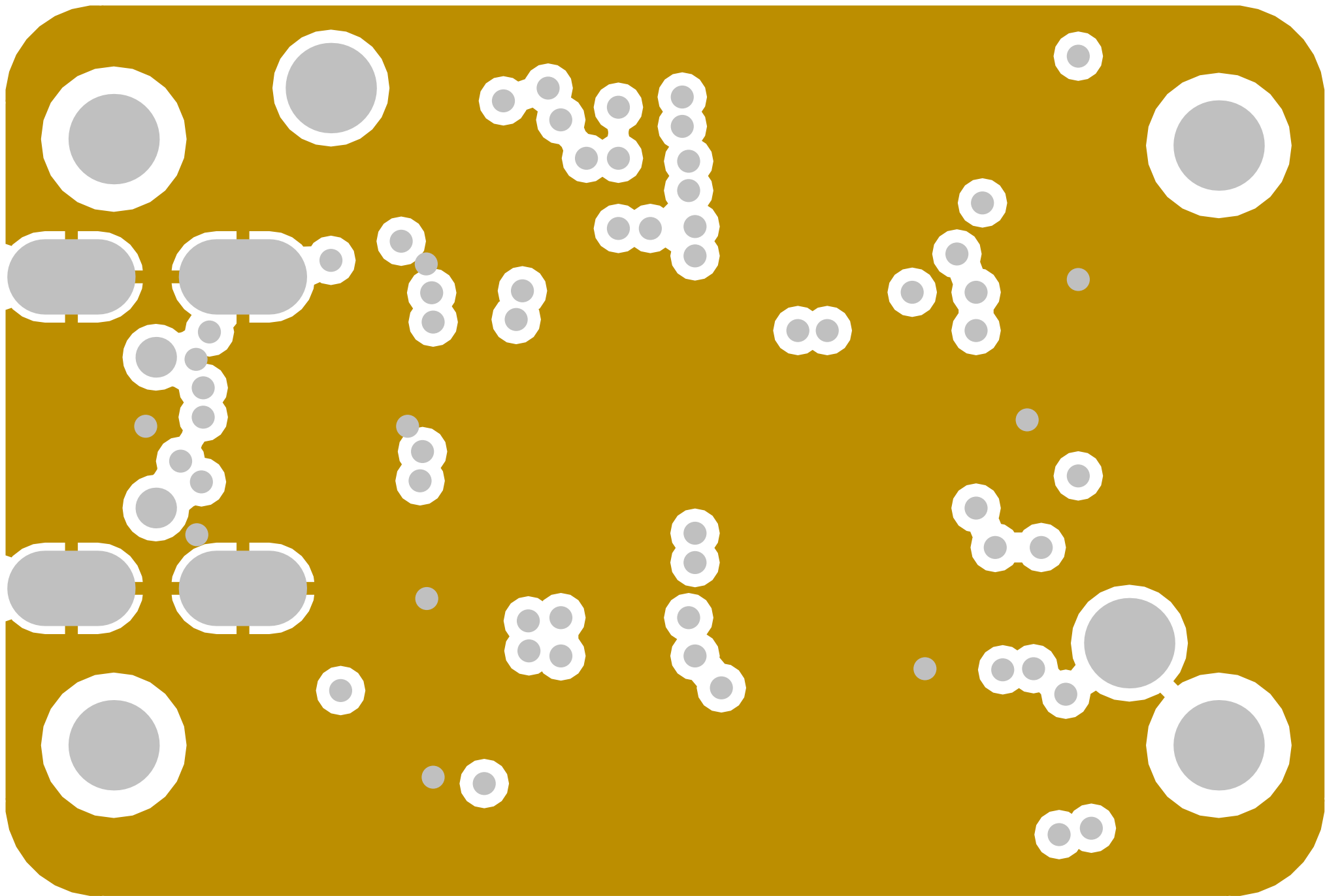
SHEET 3 OF 3

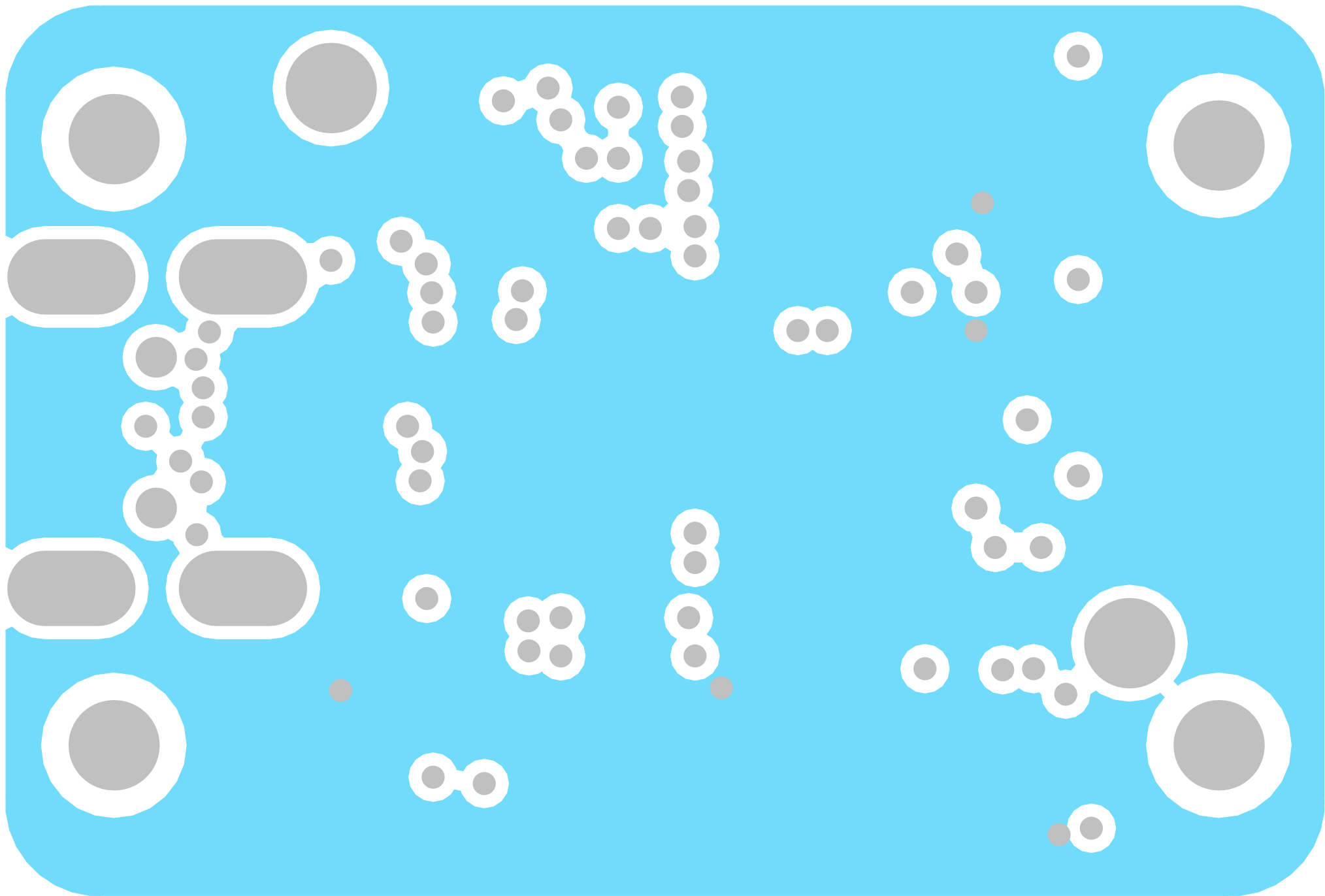
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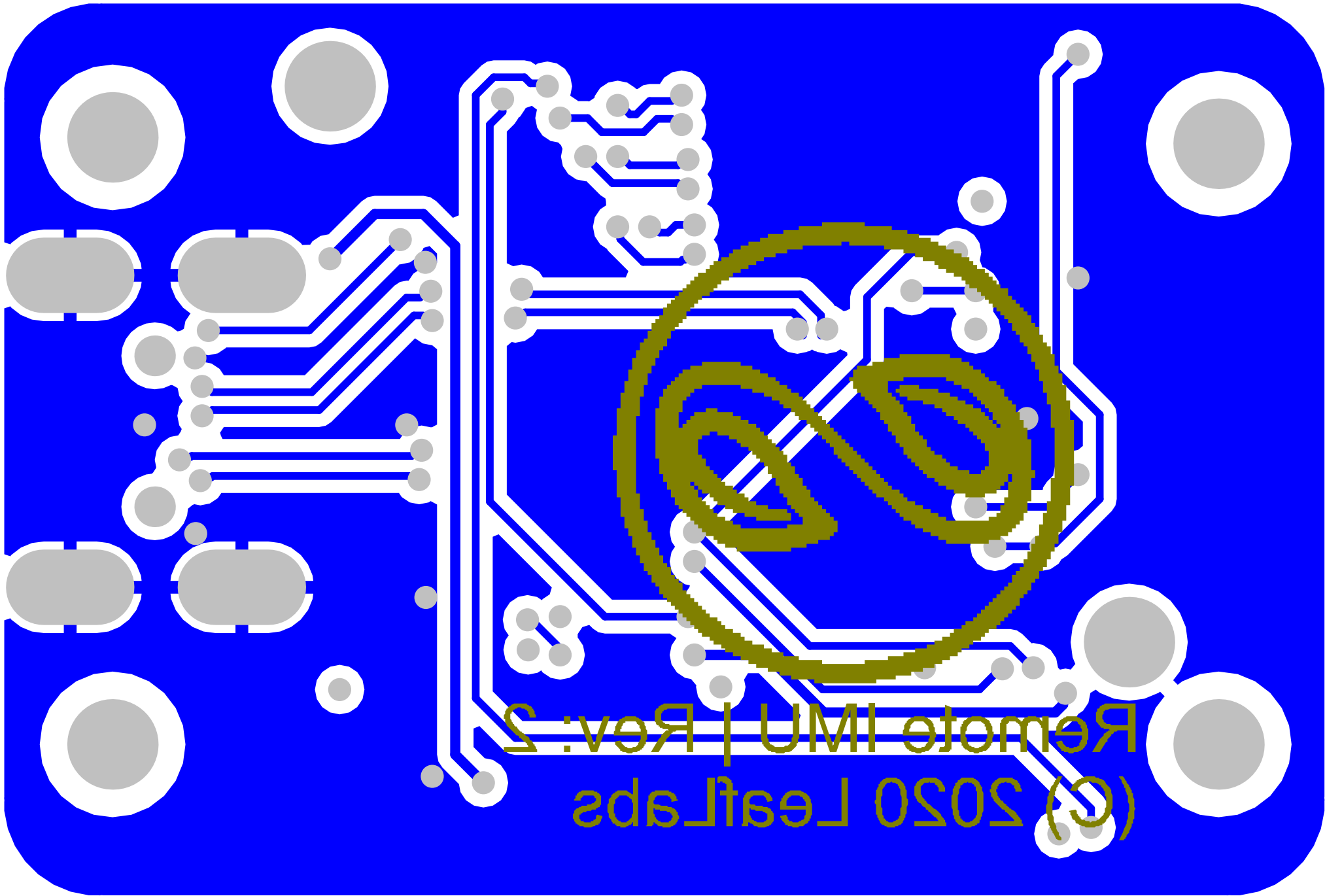


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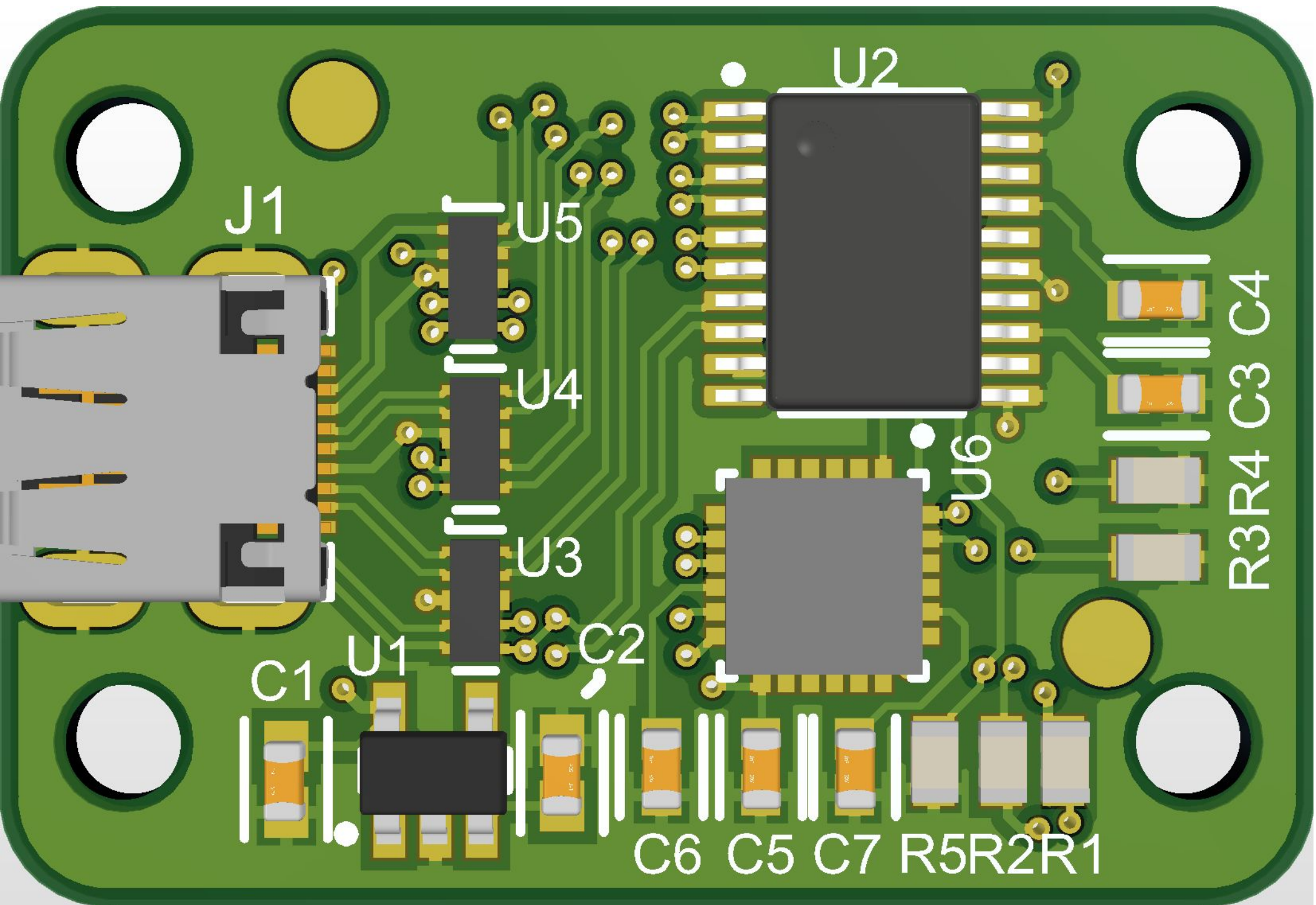






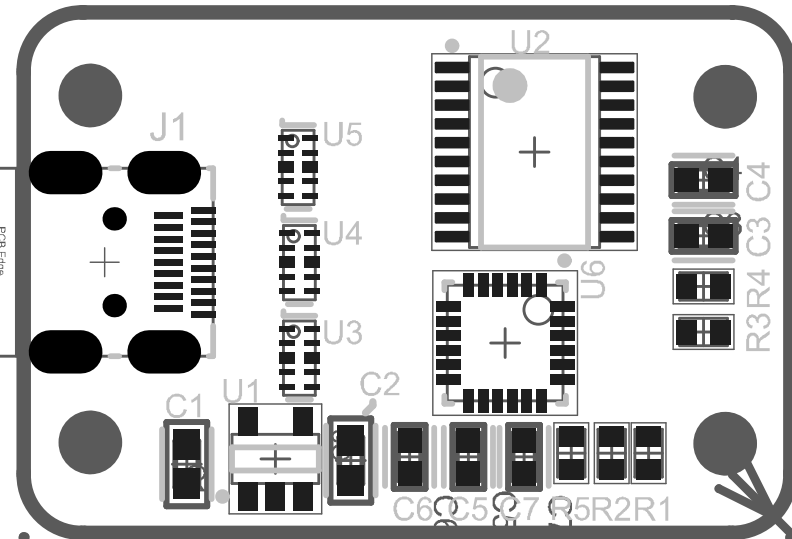
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Remote IMU | Rev: 2

Comment	Description	Designator	Quantity	Supplier Part Number 1
1uF	CAP CER 1UF X7R 0603	C1, C2	2	1276-1036-1-ND
0.1uF	CAP CER 0.1UF 16V X7R 0603	C3, C4, C5, C6	4	311-1088-1-ND
2.2nF	CAP CER 2.2nF 50V X7R 0603	C7	1	311-1081-1-ND
685119248123	Micro HDMI Type D Receptacle WR-COM, Horizontal, SMT	J1	1	732-5254-1-ND
22R	Resistor 0603 22 Ohm	R1	1	CR0603-JW-220ELFCT-ND
4.7k	Resistor 0603 4.7k Ohm	R2, R3, R4, R5	4	CR0603-JW-472ELFCT-ND
MIC5504-3.3YM5-TR	Single LDO, 2.5 to 5.5 V, Fixed Out 3.3 V, 0.3 A, -40 to 125 degC, 5-Pin SOT-23 (M5), RoHS, Tape and Reel	U1	1	576-4764-1-ND
SN65LVDT14PW	SPI<>LVDS Transceiver, 1 Tx and 4 Rx, -55 to +125 degC, 20-pin TSSOP (PW), Green (RoHS & no Sb/Br)	U2	1	296-12736-5-ND
TPD4E02B04DQAR	4 Channel TVS Avalanch diode for USB3/HDMI2.0 protection	U3, U4, U5	3	296-43875-1-ND
MPU-6000	3-Axis Gyroscope 3-Axis Accelerometer Motion Processing Unit with I2C and SPI, 2.5, 3 or 3.3 V, -40 to 85 degC, 24-Pin QFN, RoHS, Tape and Reel	U6	1	1428-1005-1-ND



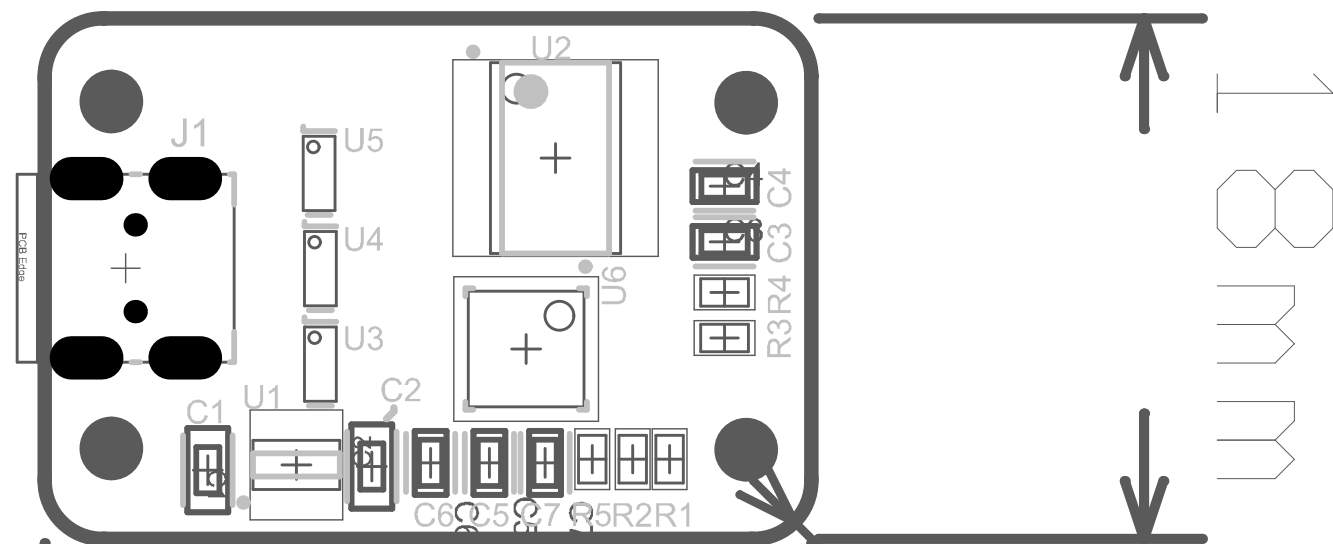


Remote IMU | Rev: 2
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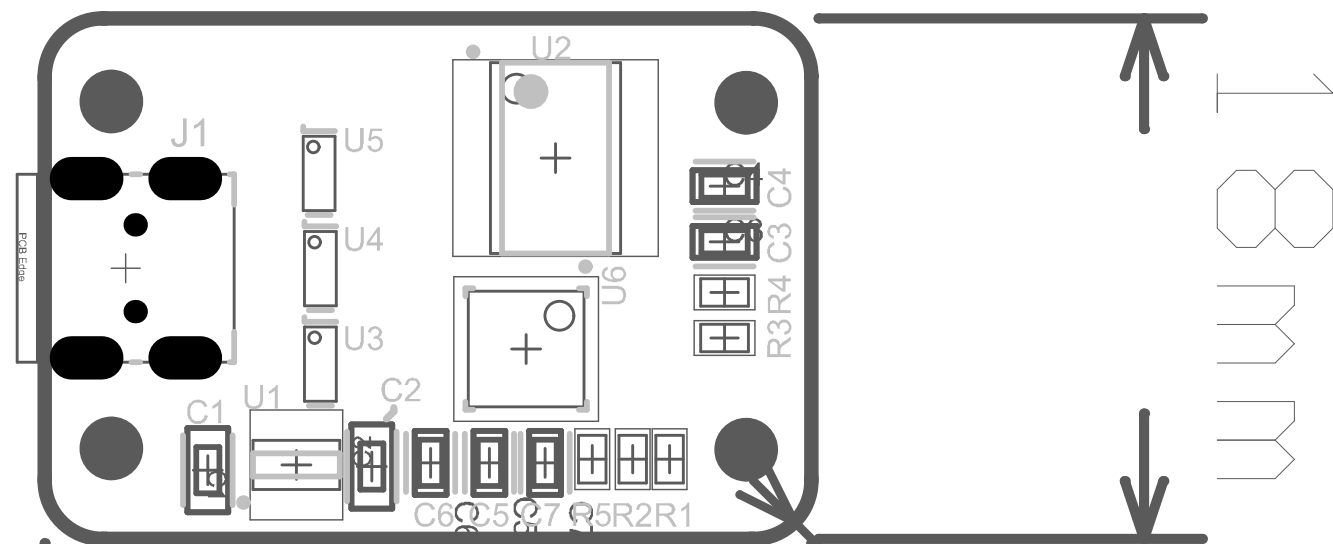
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R12.0mm
(AI corners)



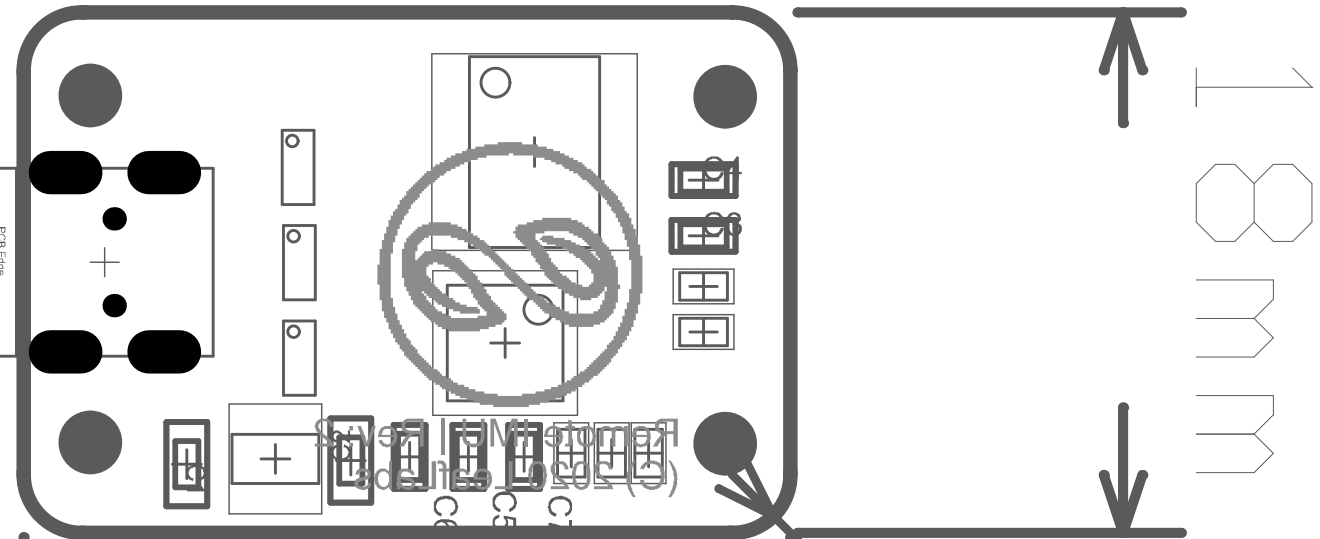
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