

Bill of Materials

<Parameter Title not found>

Source Data From: Pressure Senor breakout Rev 2.PrjPcb
Project: Pressure Senor breakout Rev 2.PrjPcb
Variant: None

Creation Date: 8/10/2021 12:06:18 AM
Print Date: 10-Aug-21 12:06:38 AM
Production Quantity: 100
Currency: <none>

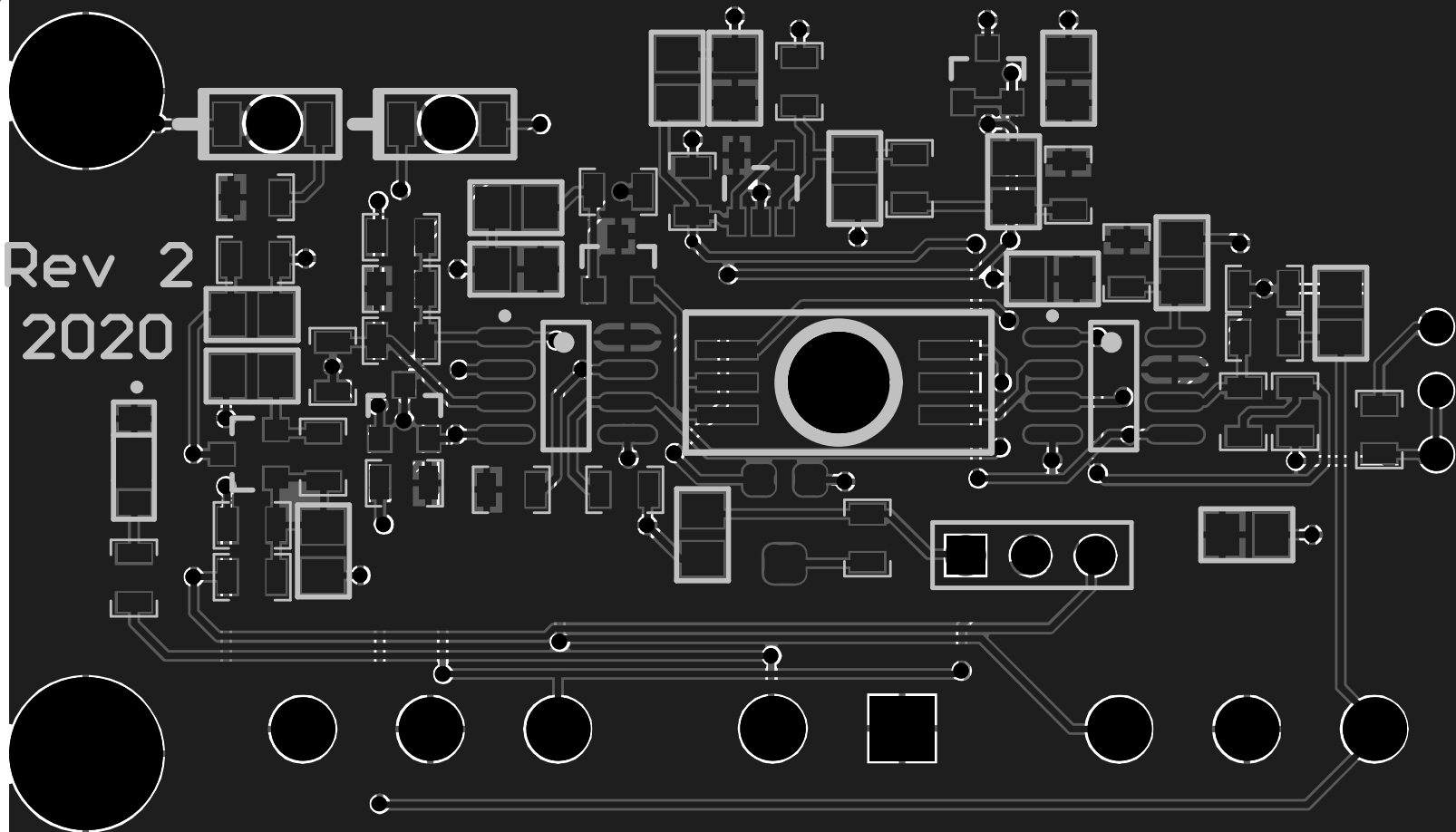
Footprint	Comment	LibRef	Designator	Description	Quantity	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal 1	Manufacturer 1	Manufacturer Part Number 1
Cap,0805	08055C104JA2A	Cap,0805,100nf,50V,5%,08055C104JA2A	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13	Capacitor, Ceramic, Cap 0.1 uF: Tol 5%; Vol-Rtg 50 VDC; SMT; 0805; X7R; Tape & Reel	13	Digi-Key	478-3352-1-ND	0.0448	1300	\$ 58.24	Kyocera AVX	08055C104JA2A
Cap,0805	Cap	Cap,0805,10uF,6.3V,10%,CL21A106KQFNNG	C14, C15	CL21 Series 10 uF 6.3V ±10 % Tolerance X8R SMT Multilayer Ceramic Capacitor	2							
LED,SMD,Bottom Entry, 1206	LTST-C230KGKT	LED,1206,Green,SMD,BtmEnt,L,LTST-C230KGKT	D1, D3	LED GREEN CLEAR CHIP SMD	2	Digi-Key	160-1456-1-ND	0.0774	200	\$ 15.48	Vishay Lite-On	LTST-C230KGKT
SOD123	MBR0560	Diode,SOD123,Shotky,60V,0.5A,MBR0560	D2	Di,Sig,Schtky,0.5A,60V,SOD123	1	Digi-Key	MBR0560TPMSCT-ND	0.1495	100	\$ 14.95	MCC	MBR0560-TP
CONNECTOR,TerminalBlock,3 POS,1935174	1935174	Conn,TH,WireTerminal,3Pos,18A,300Vdc,1935174	J1, J3	TERM BLK 3POS SIDE ENTRY 5MM PCB	2	Digi-Key	277-1578-ND	0.5778	200	\$ 115.56	Phoenix Contact	1935174
Header,3POS,0.1"Vert	Generic Header	Header 1x3,0.1",TH,Generic	J2	Generic Header 3 pos header 0.1"	1							
TERM BLOCK 2POS SIDE ENTRY 5MM	TE Connectivity 282836-2	TERM BLOCK 2POS SIDE ENTRY 5MM, 282836-2	J4	Wire to Board 2 Position 5 mm Pitch 30-16 AWG Euro Style Terminal Block	1	TME						
Standoff,Hex,M3,6mm	M3 hex Standoff	Mech,Standoff,M3,Hex	M1, M2, M3, M4	HEX STANDOFF M3,generic	4	Digi-Key	36-24314-ND	0.9252	400	\$ 370.08	Keystone Electronics	24314
SOT23-3	SMBT2222A	Trans,40V,600mA,0.33W,SMBT2222A	Q1	NPN Silicon Switching Transistor, 40 V VCEO, 600 mA IC, SOT23, Reel, Green	1	Digi-Key	SMBT2222AE6327HTS A1CT-ND	0.1147	100	\$ 11.47	Infineon	SMBT2222AE6327
SOT23-3	2N7002ET1G	MOSFET,N-Channel,SOT23,0.25A,60V,2N7002ET1G	Q2	Small Signal MOSFET, 60 V, 310 mA, Single, N-Channel, 3-Pin SOT-23, Pb-Free, Tape and Reel	1	Digi-Key	2N7002ET1GOSCT-ND	0.1078	100	\$ 10.78	ON Semiconductor	2N7002ET1G
SOT23-3	NPN	Trans,40V,600mA,0.33W,SMBT2222A	Q3	NPN Silicon Switching Transistor, 40 V VCEO, 600 mA IC, SOT23, Reel, Green	1							
res, 0805, HD	Vishay / Dale CRCW080510K0FKTA	Res,0805,10.0k,0.1%,100ppm,CRCW080510K0FKTA	R1, R3, R4, R7, R15, R20, R26	RES SMD 10K OHM 1% 1/8W 0805	7	Digi-Key	541-3016-1-ND	0.0207	1000	\$ 20.70	Vishay Dale	CRCW080510K0FKTA
res, 0805, HD	Vishay CRCW08051K0JNEA	Res,0805,1.0k,0.5%,200ppm,CRCW08051K0JNEA	R2, R5, R11, R16, R21, R24	Res Thick Film 0805 1K Ohm 5% 0.125W(1/8W) ±200ppm/C Molded SMD Automotive Paper T/R	6	Digi-Key	541-1.0KADKR-ND	0.0091	1000	\$ 9.10	Vishay Dale	CRCW08051K0JNEA
res, 0805, HD	CRCW0805100KFKEA	Res,0805,100k,0.1%,100ppm,CRCW0805100KFKEA	R6	100 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Thick Film	1	RS						
res, 0805, HD	CRGCO0805F15K	Res,0805,15K,0.1%,±100ppm/C,CRGCO0805F15K	R8, R18	15 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200, Moisture Resistant Thick Film	2	Digi-Key	A129763CT-ND	0.0231	200	\$ 4.62	TE Connectivity	CRGCO0805F15K
res, 0805, HD	Vishay Dale CRCW0805221RFKTA	Res,0805,221k,1%,100ppm,CRCW0805221RFKTA	R9, R10, R19	RES SMD 221 OHM 1% 1/8W 0805	3	Digi-Key	541-221CCT-ND	0.0271	300	\$ 8.13	Vishay	CRCW0805221RFKEA
res, 0805, HD	CRCW0805681RFKEA	Res,0805,681.0k,0.±1%,100.0ppm/C,150.0V,CRCW0805681RFKEA	R12	RES SMD 681 OHM 1% 1/8W 0805	1	Digi-Key	541-681CCT-ND	0.0271	100	\$ 2.71	Vishay	CRCW0805681RFKEA
res, 0805, HD	Res1	Res,0805,0.00,150V,CRC0805-J-000ELF	R13	RES SMD 0.0 OHM JUMPER 1/3W 0805	1							
res, 0805, HD	CR0805-J-000ELF	Res,0805,0.00,150V,CRC0805-J-000ELF	R14, R27	RES SMD 0 OHM JUMPER 1/8W 0805	2	Digi-Key	CR0805-J-000ELFCT-ND	0.0058	250	\$ 1.45	Bourns	CR0805-J-000ELF
Res,SMD,POT,TC33 Series	TC33X2-102E	Res,POT,SMD,1k,0.1W,TC33X2-102E	R17	TRIMMER 1k OHM 0.1W J LEAD TOP	1	Digi-Key						
res, 0805, HD	Res,0805,100k,0.1%,100ppm,CRCW0805100KFKEA	Res,0805,100k,0.1%,100ppm,CRCW0805100KFKEA	R22	100 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Thick Film	1	RS						
res, 0805, HD	CR0805-JW-105ELF	Res,0805,1Meg,0.5%,200ppm,0.805W8F1005T5E	R23	RES SMD 1M OHM 5% 1/8W 0805	1	Digi-Key	CR0805-JW-105ELFCT-ND	0.0088	100	\$ 0.88	Bourns	CR0805-JW-105ELF
Res,TH,POT,TopAdj	CT94EW103	Res,POT,TH,10k,0.5W,±10%,±100ppm/C,CT94EW103	R25	TRIMMER 10K OHM 0.5W PC PIN TOP	1	Digi-Key	CT94EW103-ND	1.1362	100	\$ 113.62	Nidec Copal	CT94EW103
ZSMPP03,6-SMD Module	ZSMPP03	Sensor,PRESSURE,Air,±7.25PSI,ZSMPP03	S1	SENSOR PRESSURE -50.50 KPA PCB	1	Digi-Key	Z3639-ND	4.5068	100	\$ 450.68	Omron	ZSMPP-03
SOIC-8	LM393DT	OPAMP,DUAL,COMPARATOR,SOIC8,OPEN-COLLECTOR,L,M393DT	U1	IC COMPARATOR LP DUAL 8-SOIC	1	Digi-Key	497-1593-1-ND	0.2272	100	\$ 22.72	STMicroelectronics	LM393DT
SOIC-8	MCP6N11T-010E/SN	Opamp,Instrumentation,SOIC,5MHz,RailToRail,MCP6N11T-010E/SN	U2	IC INST AMP 1 CIRCUIT 8SOIC	1	Digi-Key	MCP6N11T-010E/SNCT-ND	1.17	100	\$ 117.00	Microchip	MCP6N11T-010E/SN
SOT23-5	TLV9001IDBVR	OPAMP,Single,1MHz,RailToRail,SOT-5,TLV9001IDBVR	U3	IC CMOS 1 CIRCUIT SOT23-5	1	Digi-Key	296-TLV9001IDBVRCT-ND	0.46	100	\$ 46.00	Texas Instruments	TLV9001IDBVR
SOT23-3	Shunt Regulator,2.5Vdc,TL431IDBZT	Shunt Regulator,2.5Vdc,TL431IDBZT	U4	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	1	Digi-Key	296-26719-1-ND	0.6088	100	\$ 60.88	Texas Instruments	TL431IDBZT
Approved					61							
Notes												

Melanson Tech
PNP-PUD Rev 2

Rev 2
2020

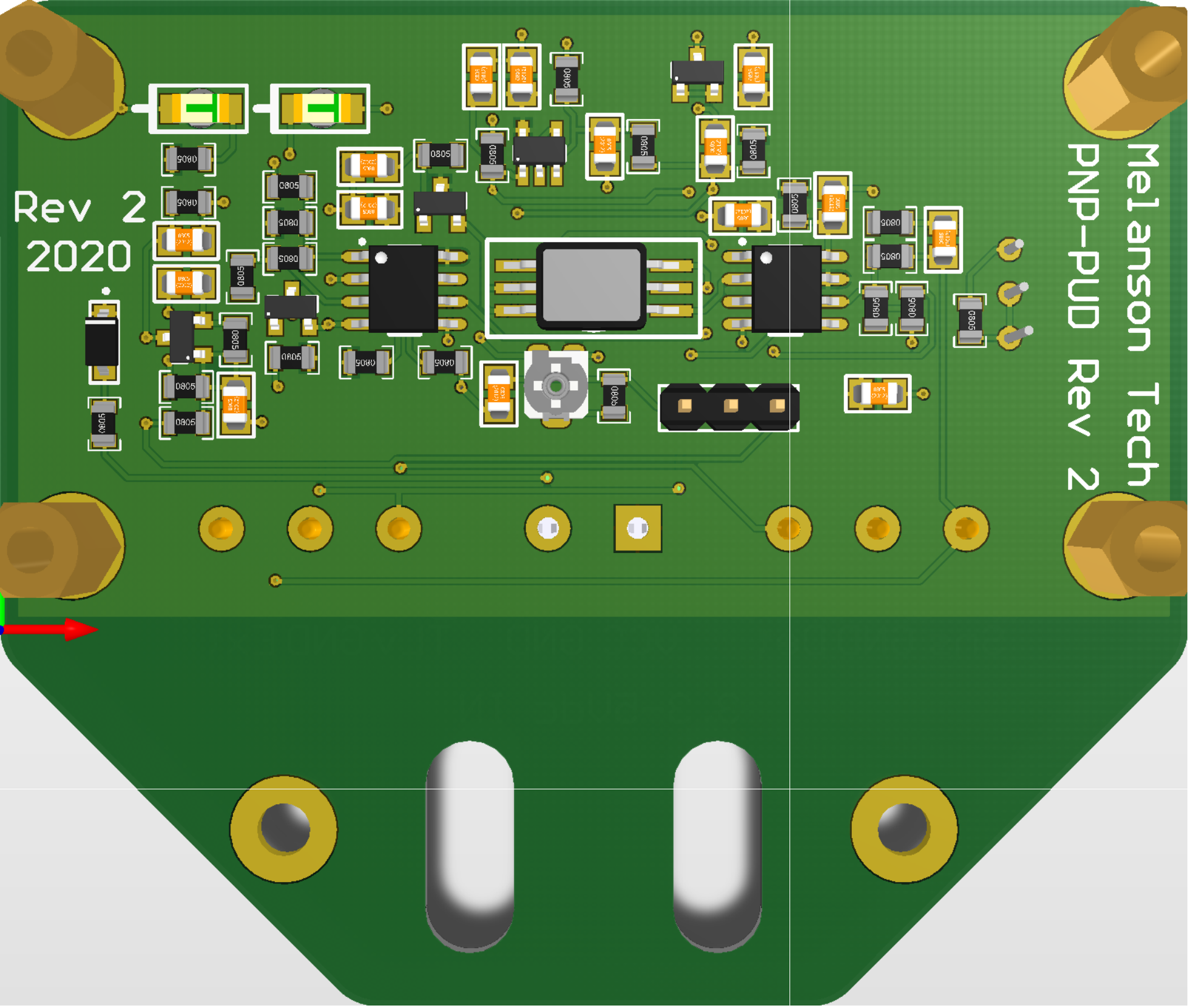
3.3-2VDC IN

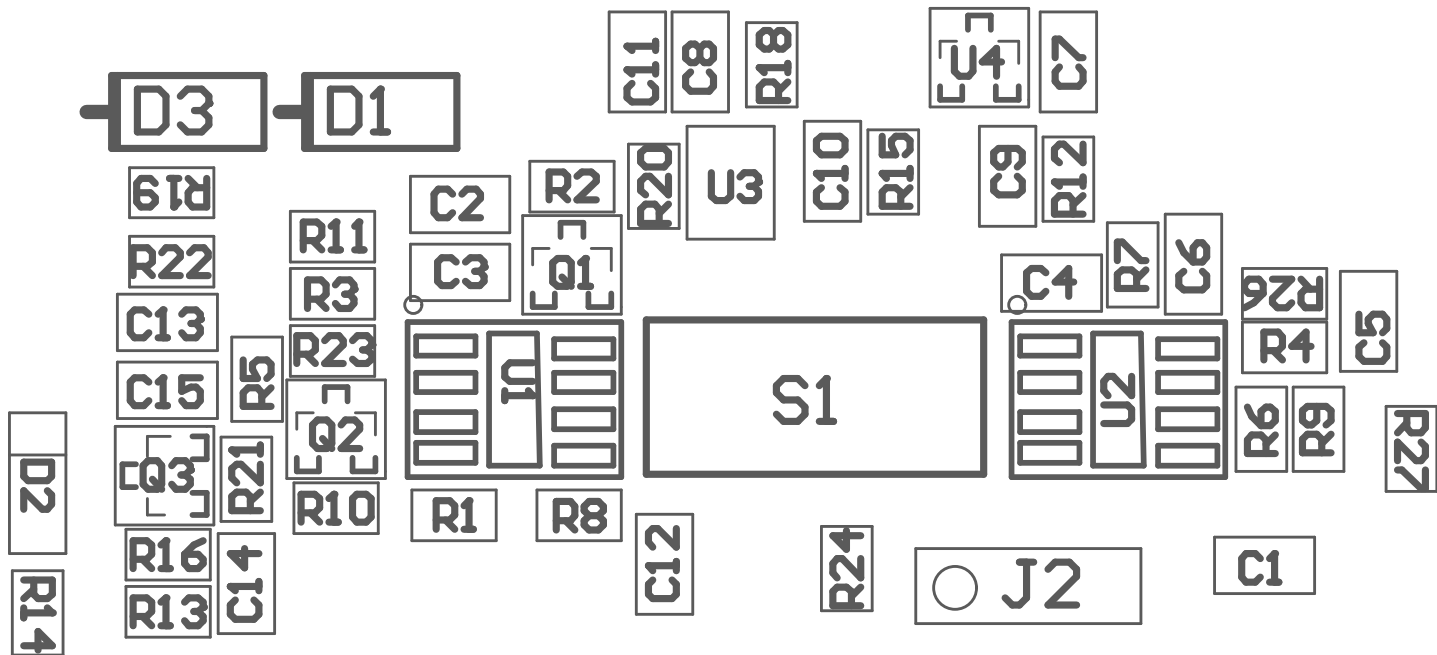
2x2 GND Def VCC GND TLV GND Ext



Melanson Tech
PNP-PUD Rev 2

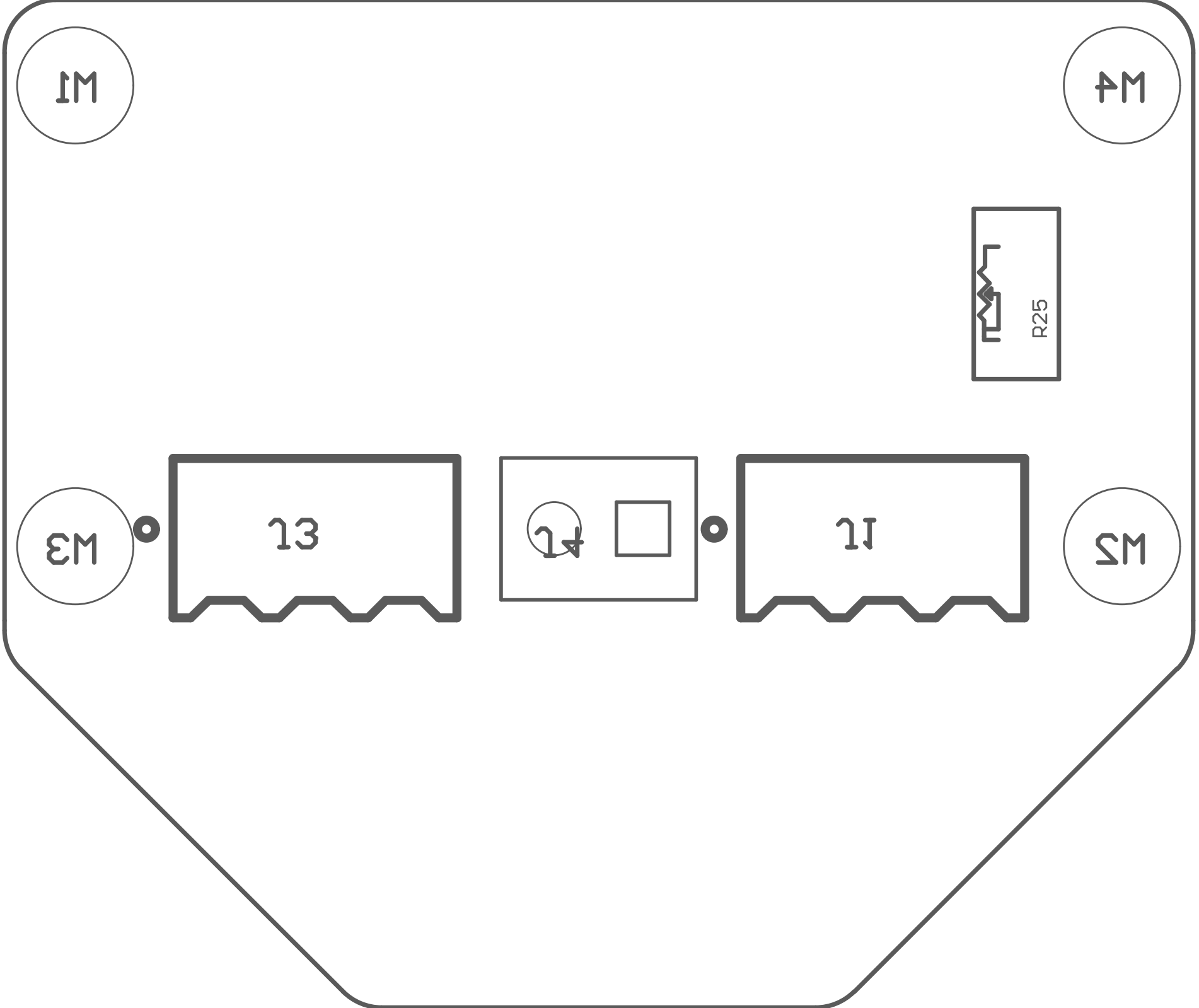
Rev 2
2020





M6

M5



IM

PM

R25

EM

13

14

11

SM

Electrical Rules Check Report

Class	Document	Message
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Net 1.5VREF has no driving source (Pin C11-1,Pin R20-2,Pin R25-1,Pin R26-2,Pin R27-1,Pin U1-5,Pin U2-5,Pin U3-1,Pin U3-4)
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Net 2.5VREF has no driving source (Pin C9-1,Pin R12-1,Pin R15-2,Pin R17-3,Pin U4-1,Pin U4-2)
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Net NetR5_2 has no driving source (Pin R5-2,Pin R23-2,Pin U1-3)
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Net NetR8_2 has no driving source (Pin R8-2,Pin S1-3,Pin U1-6)
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Net TRIGGER LEVEL has no driving source (Pin J2-2,Pin J3-3,Pin U1-2)
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 280,400.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 300,539.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 310,690.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 310.315,430
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 330,370.472
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 339.685,700
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 400,390.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 430,690.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 440,359.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 480,370.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 510.157,530
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 590,799.055
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 620,680.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 650,799.055
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 700,169.843
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 700,360.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 700,799.055
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 720,459.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 760,530.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 760,799.055
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 790,159.843
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 790,219.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 790.315,260
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 860,340.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 870,760.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 890,190.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 1160,380.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 1205.748,390
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 1260.315,390
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid at 1309.685,380.157
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Net Label 1.5VDC at 493.668,380
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Net Label PRESSURESENSE at 748.338,610
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -1 at 320.315,440
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -1 at 710,449.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -1 at 800.315,250
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -1 at 1270.315,380
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -2 at 280.315,440

Class	Document	Message
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -2 at 349.685,400
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -2 at 750,449.685
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -2 at 800.315,290
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -2 at 1270.315,420
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Pin -3 at 330,350.787
Warning	Pressure Sensor Breakout Rev 2.SchDoc	Off grid Power Object GND at 280,330.787