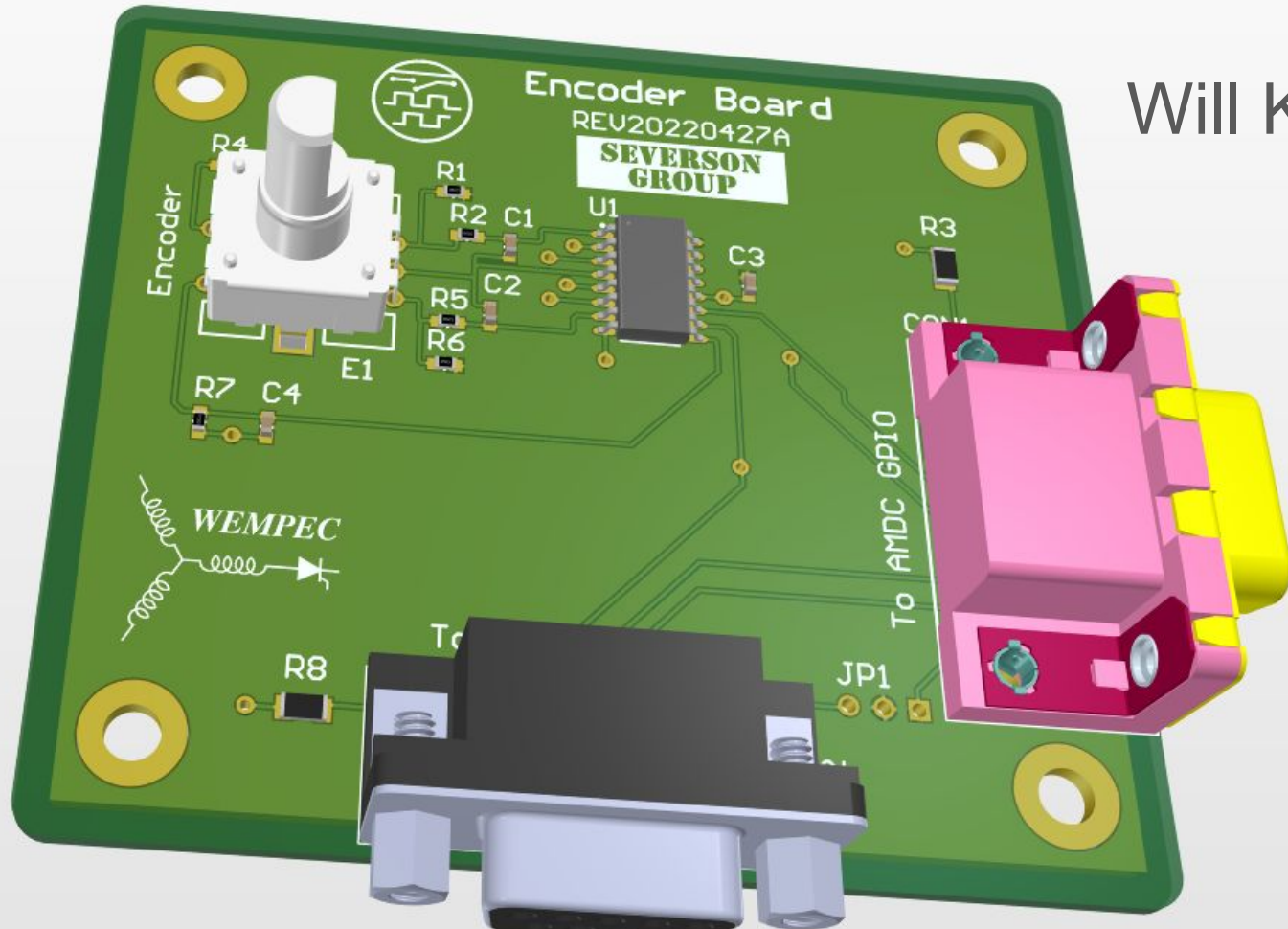
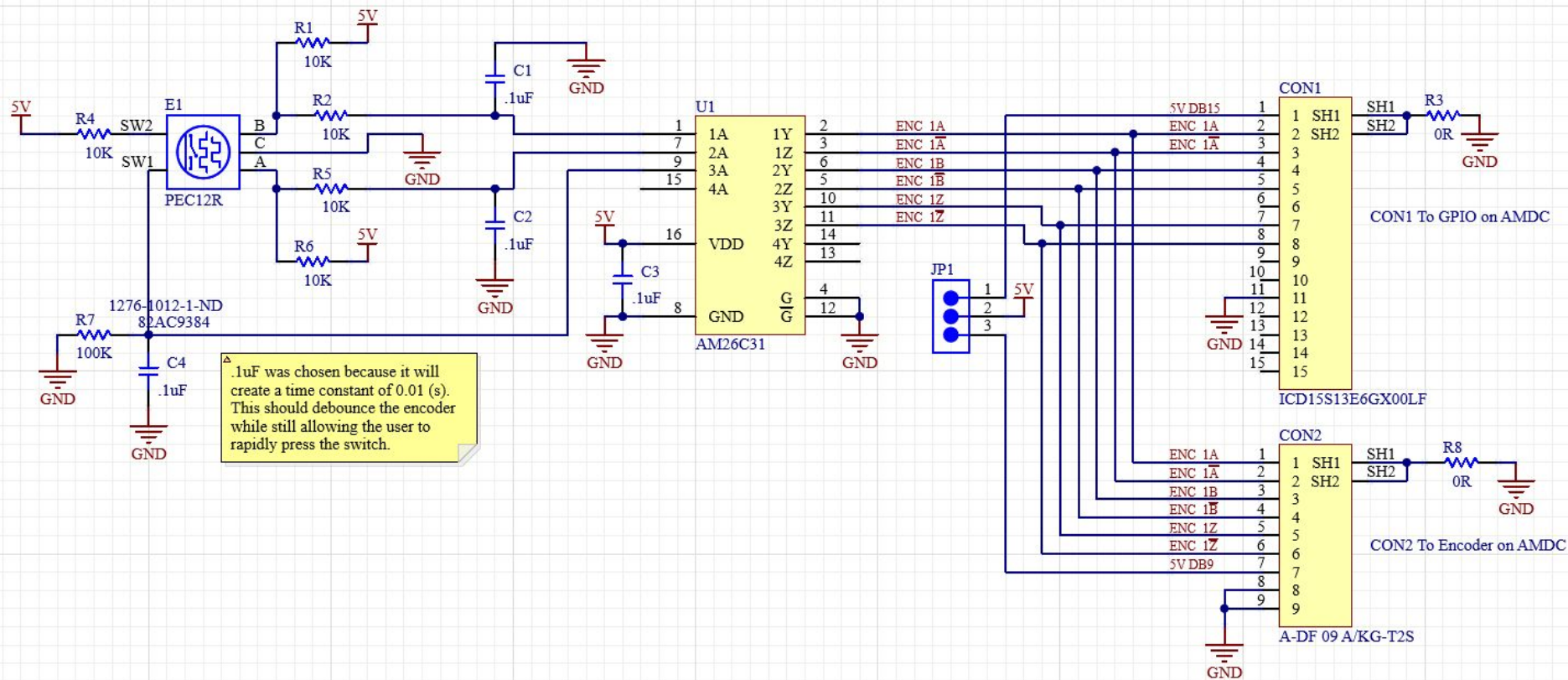


# Encoder Board Review

Will Knutson





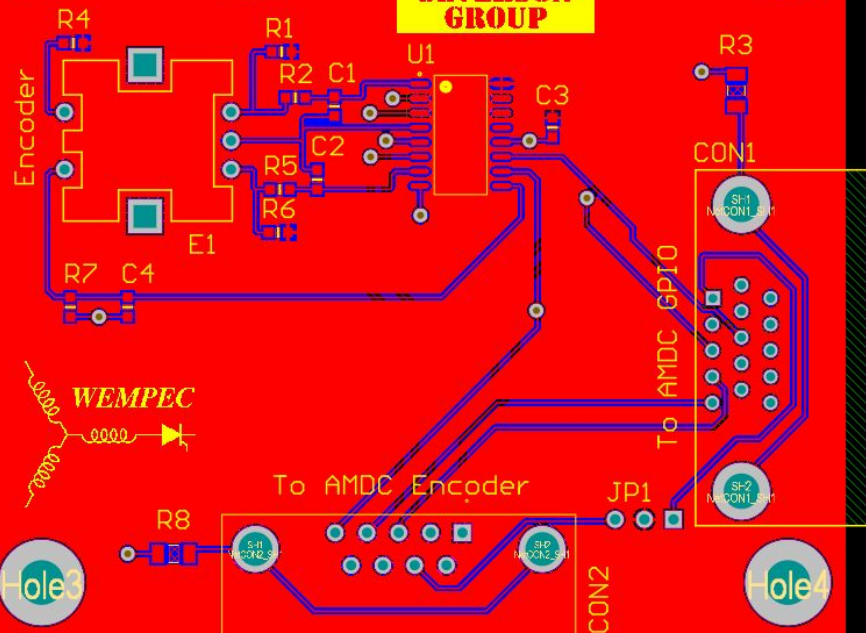
BOARD SIZE = 70mm x 80mm  
Layers = 2  
Unique Parts = 9  
Cost per Board (Unit 1) = \$8.64

	A	B	C	D	E	F	G	H	I
1	Comment	Description	Designator	Footprint	LibRef	Quantity	Price (Qty 1)	Price (Qty 10)	
2	Capacitor .1uF	Capacitor	C1, C2, C3, C4	.1uF Capacitor (0603-CAP)	Capacitor .1uF	4	0.4	1.16	
3	ICD15S13E6GX00LF	CONN D-SUB PLUG 15POS R/A SLDR	CON1	ICD15S	178-H15-513R577	1	3.27	29.68	
4	A-DF 09 A/KG-T2S	9 Position D-Sub Receptacle, Female Sockets Connector	CON2	DB9 Connector	DB9 Connector A-DF_09	1	0.81	6.87	
5	PEC12R		E1	Encoder	PEC12R-4220F-S0024	1	1.59	14.03	
6	Jumper3		JP1	PIN_HEADER_1x3	Jumper3	1	0.13	1.3	
7	Resistor	Resistor	R7	100K Resistor (0603-RES)	Resistor 100K	1	0.1	0.29	
8	Resistor	Resistor	R1, R2, R4, R5, R6	10K Resistor (0603-RES)	Resistor 10K	5	0.5	2.65	
9	Resistor	Resistor	R3, R8	0 Resistor (1206-RES)	Resistor 0R	2	0.2	1.1	
10	AM26C31	IC DRIVER 4/0 16TSSOP	U1	Pg 23 Design	AM26C31	1	1.64	14.63	
11							8.64	71.71	Total Price
12							8.64	7.171	Unit Price

# Encoder Board

REV0220427A

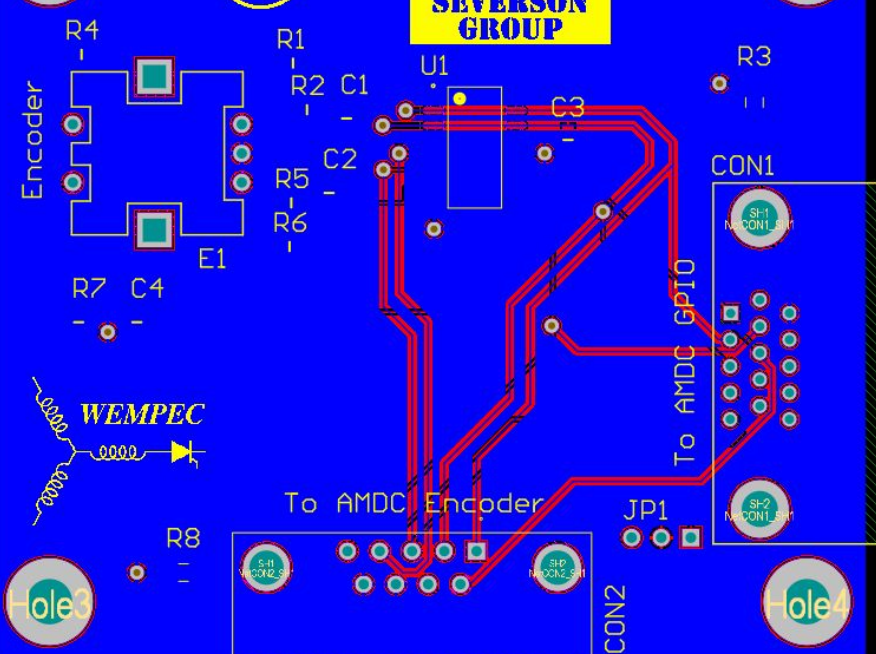
**SEVERSON  
GROUP**



# Encoder Board

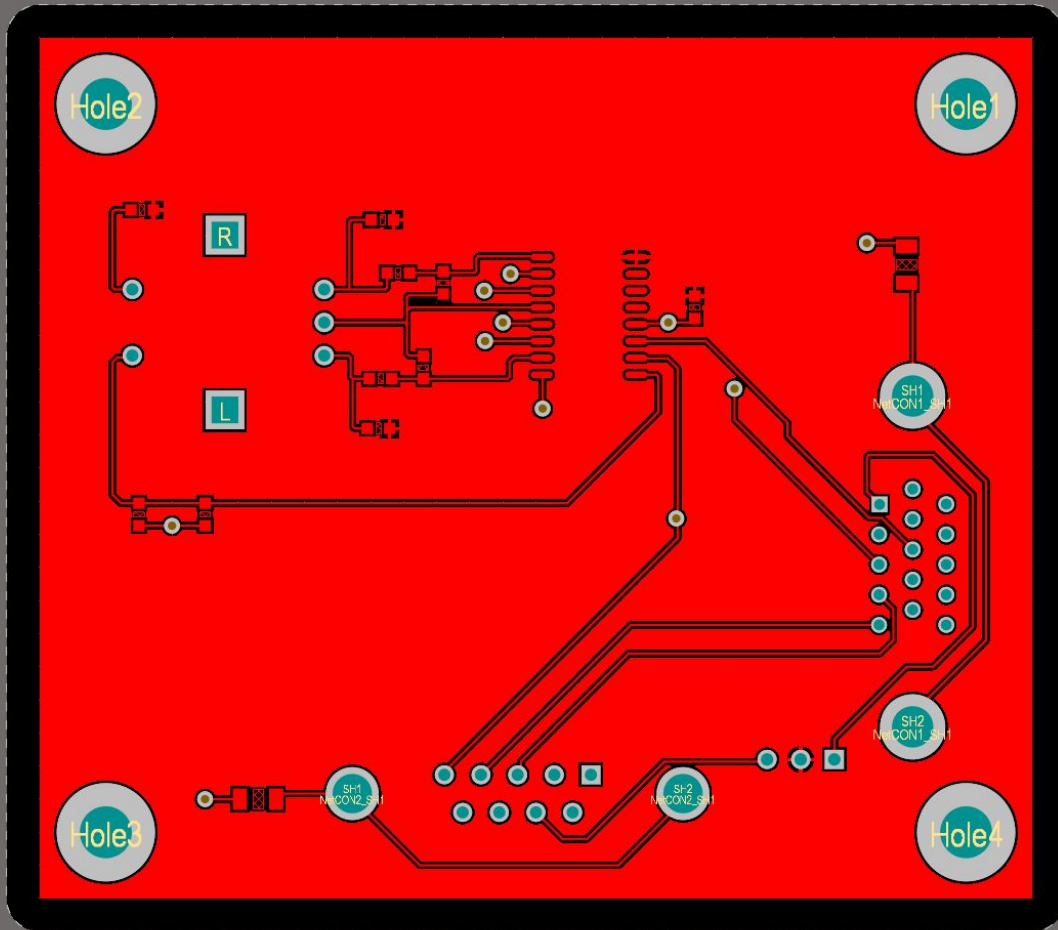
REV0220427A

**SEVERSON  
GROUP**

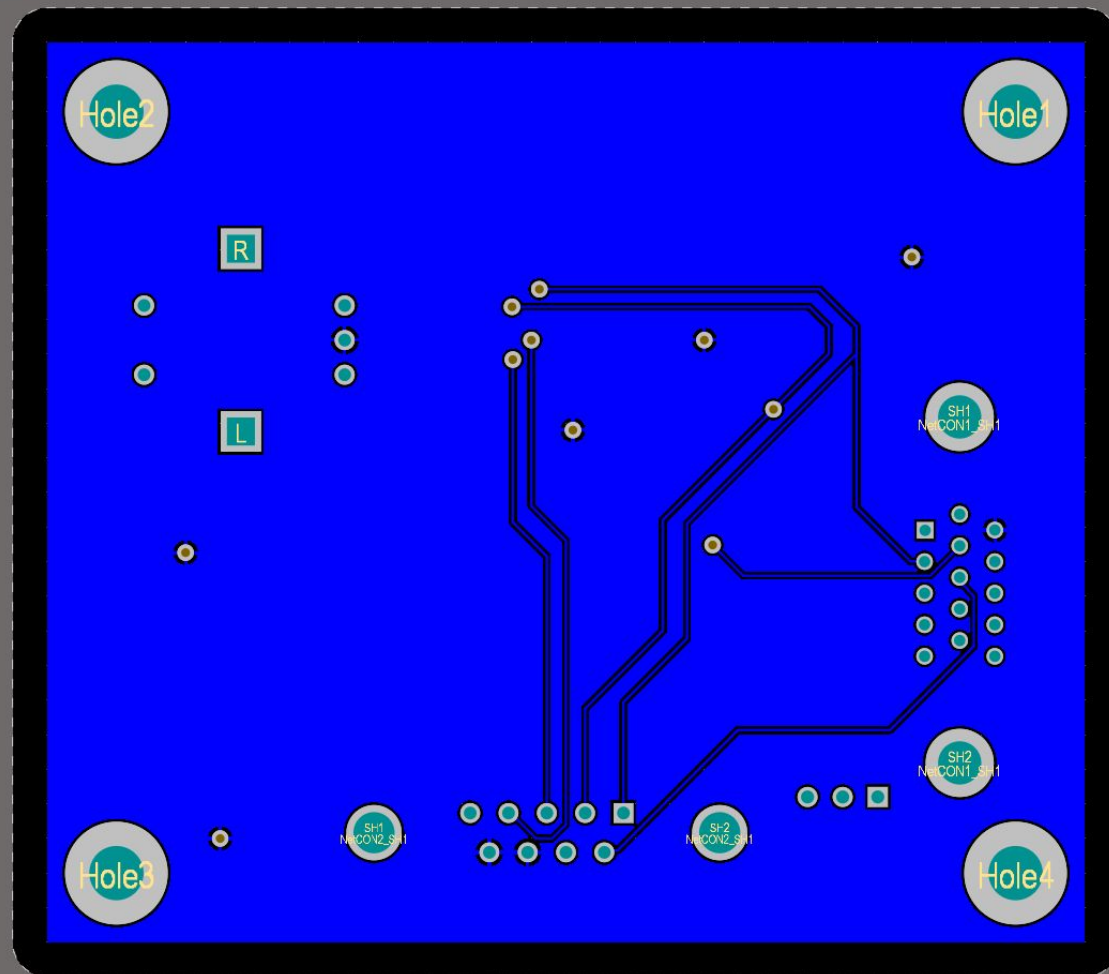




x: 27.500 dx: 75.000 mm  
y: 85.000 dy: 15.000 mm  
**Top Layer (Single)**  
Snap: 2.5mm Hotspot Snap: 0.263mm



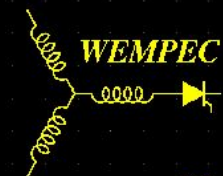
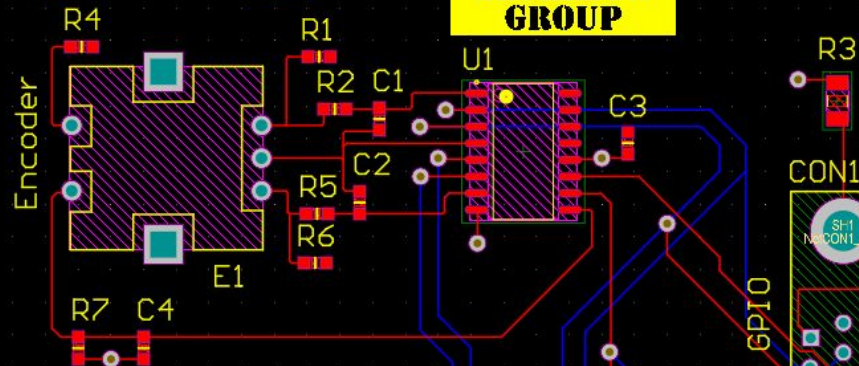
x: 20.000 dx: 82.500 mm  
y: 85.000 dy: 15.000 mm  
**Bottom Layer (Single)**  
Snap: 2.5mm Hotspot Snap: 0.203mm



# Encoder Board

REV20220427A

**SEVERSON  
GROUP**



To AMDC Encoder

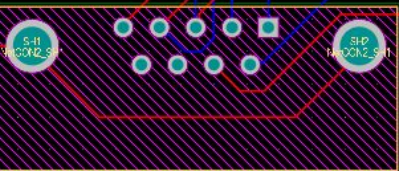
To AMDC GPIO

CON1

SH-1  
NIPCON1\_SH1

SH-2  
NIPCON1\_SH1

CON2



Hole4

