

Title		
Size	Number	Revision
Letter		
Date:	2/03/2020	Sheet of
File:	C:\git\...\60V_Ind.SchDoc	Drawn By:

A

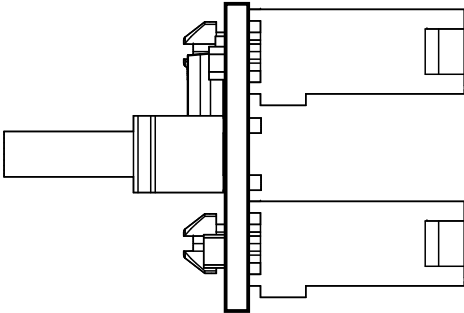
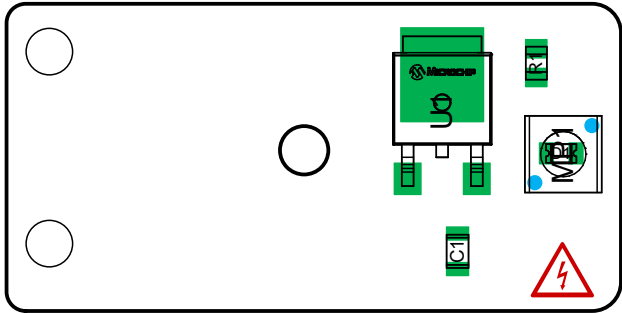
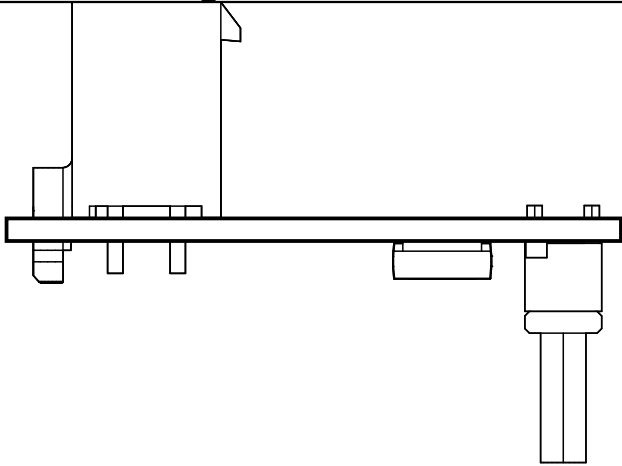
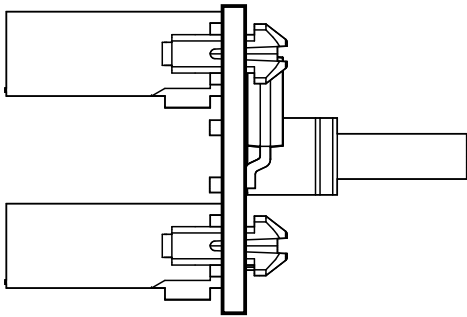
B

C

D

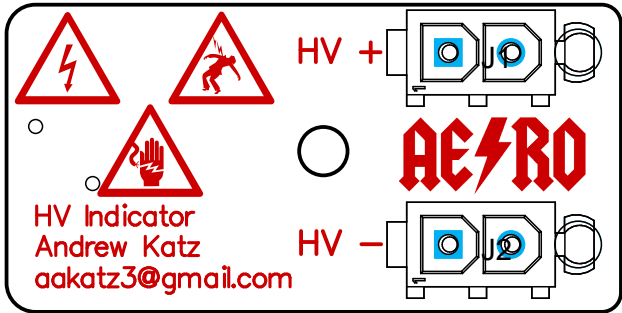
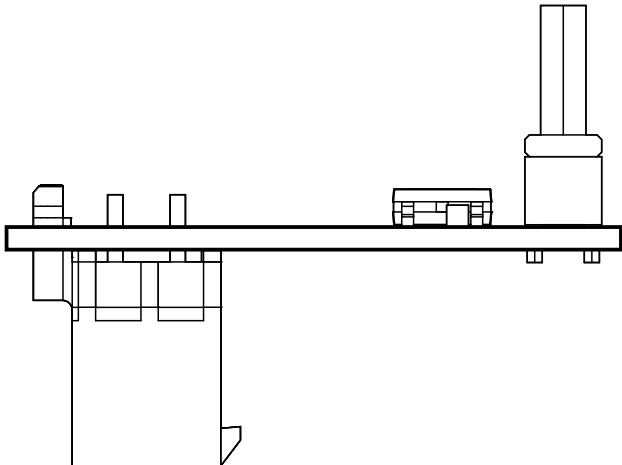
1

1



2

2



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES		DRAWN	2/3/2020	TITLE		
		TOLERANCES:		CHECKED				
		FRACTIONAL±		ENG APPR.				
		ANGULAR: MACH± BEND ±		MFG APPR.				
		TWO PLACE DECIMAL ±		Q.A.		COMMENTS:		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC					SIZE	DWG. NO.
		TOLERANCING PER:						
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON	DO NOT SCALE DRAWING					SCALE: 1:1	WEIGHT:
APPLICATION								SHEET 1 OF 1

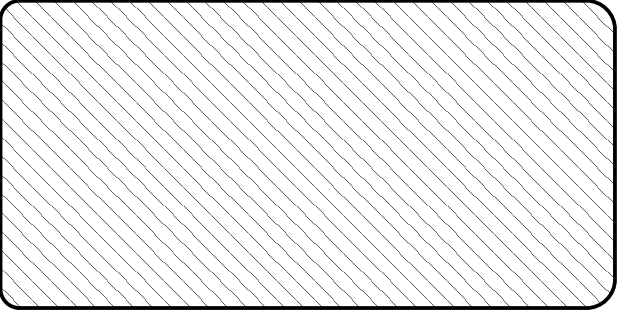
A

B

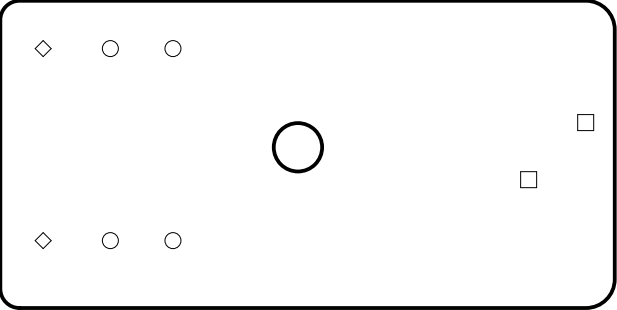
C

D

Region View (Scale 2:1)



Drill Drawing View (Scale 2:1)



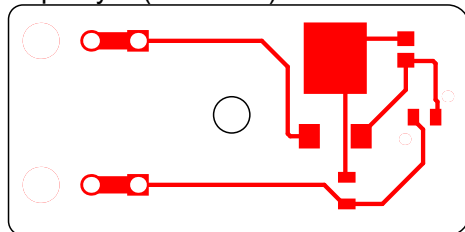
Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	2	40.00mil	Нет	None
○	4	55.00mil	Есть	None
◇	2	125.00mil	Нет	None
8 Total				

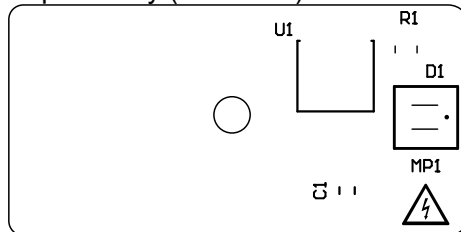
Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	1.00mil(0mm)	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.79mil(0mm)		Surface Finish	
Cu	Top Layer	1.40mil(0mm)		Signal	GTL
Core		56.00mil(1mm)	FR-4	Dielectric	
Cu	Bottom Layer	1.40mil(0mm)		Signal	GBL
PbSn	Bottom Surface Finish	0.79mil(0mm)		Surface Finish	
Surface Material	Bottom Solder	1.00mil(0mm)	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 62.37mil(2mm)					

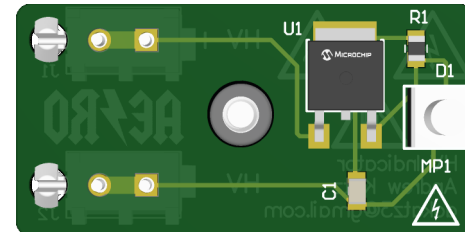
Top Layer (Scale 3:2)



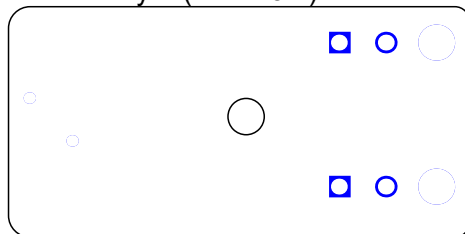
Top Overlay (Scale 3:2)



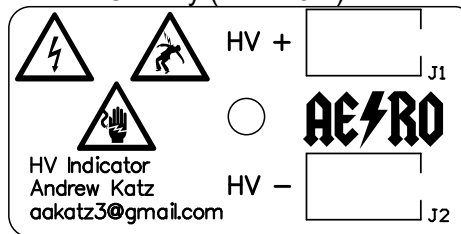
Realistic View



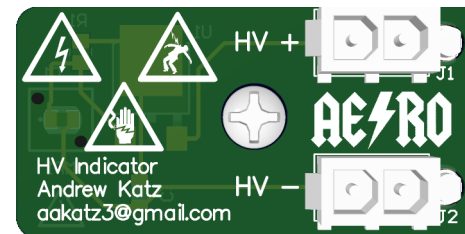
Bottom Layer (Scale 3:2)



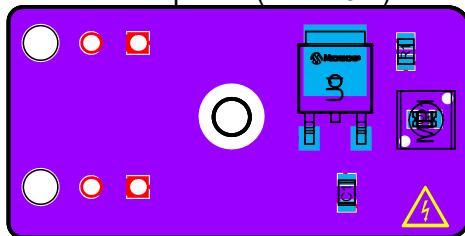
Bottom Overlay (Scale 3:2)



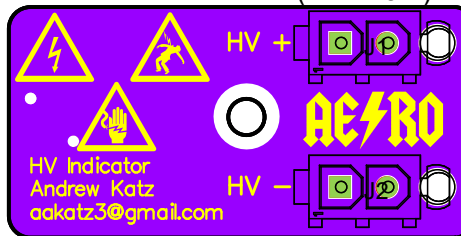
Realistic View



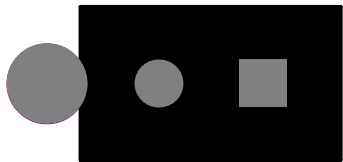
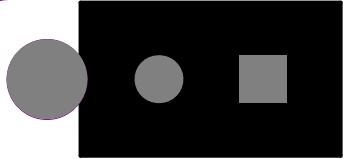
View from Top side (Scale 3:2)



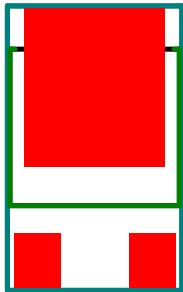
View from Bottom side (Scale 3:2)







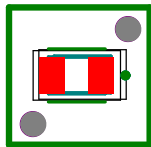
U1



R1



D1

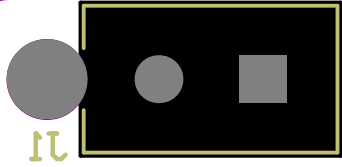


C1

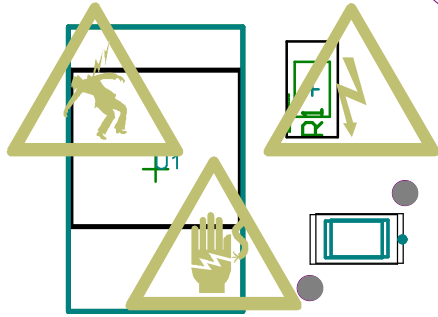


MP1





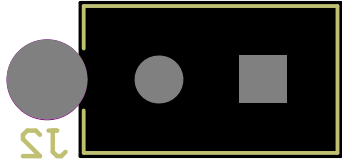
+ VH

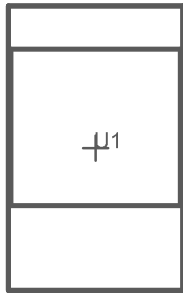
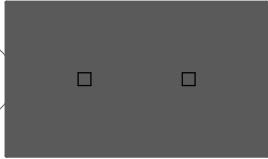


Andrew Katz  
akatz3@gmail.com  
HV Indicator

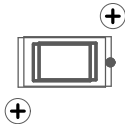
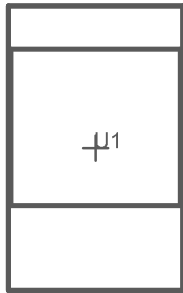


- VH









Name	Description	Designator	Footprint	Quantity	Manufacturer Part Number 1
1-172165-2	2 Position Rectangular Housing Connector Plug Red 0.163" (4.14mm)	P1		1	1-172165-2
1-172165-9	2 Position Rectangular Housing Connector Plug Black 0.163" (4.14mm)	P2		1	1-172165-9
1-770872-0	Connector Header Through Hole 2 position 0.163" (4.14mm)	J1, J2	CON2_1X2_P163_VM	2	1-770872-0
RES 0805 40.2 1%	Resistor Surface Mount, 40.2 Ohms, 0805 Footprint, 1% Tolerance 0.125W	R1	0805_RES	1	CRCW080540R2FK EA
770904-1	Socket Contact Crimp 18-22 AWG Stamped	PIN1, PIN2, PIN3, PIN4		4	770904-1
C2012X7S2A105K125AB	Chip Capacitor, 1 uF, +/- 10%, 100 V, -55 to 125 degC, 0805 (2012 Metric), RoHS, Tape and Reel	C1	CAPC2013X145X20ML20	1	C2012X7S2A105K125AB
LPA-C011301S-10	Light Pipe Single Clear Rigid Round with Flat Top, 3mm Board Mount, Press Fit	MP1	LPA-C011301S-10	1	LPA-C011301S-10
LR8K4-G	Linear Voltage Regulator IC Positive Adjustable 1 Output 10mA TO-252, (D-Pak)	U1	Microchip_C04-189_MFG	1	LR8K4-G
SM0805HCL	Red 631nm LED Indication - Discrete 1.9V 0805 (2012 Metric)	D1	LEDC2012X135N_SM0805UGC(Primary)	1	SM0805HCL

## Design Rules Verification Report

Filename : C:\git\AERO\_2019-2020\60V\_IND\Altium\60V\_Ind.PcbDoc

Warnings 0  
Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=10mil) (All),(All)	0
Clearance Constraint (Gap=33.465mil) (InNetClass("TS")),(InNetClass("TS"))	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ( All )	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=10mil) (Max =60mil) (Preferred=10mil) (All)	0
Power Plane Connect Rule(Relief Connect )(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole Size Constraint (Min=1mil) (Max =500mil) (All)	0
Hole To Hole Clearance (Gap=10mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=10mil) (All),(All)	0
Silk To Solder Mask (Clearance=5mil) (IsPad),(All)	0
Silk to Silk (Clearance=5mil) (All),(All)	0
Net Antennae (Tolerance=0mil) (All)	0
Height Constraint (Min=0mil) (Max =1000mil) (Preferred=500mil) (All)	0
Total	0

Electrical Rules Check Report

Class	Document	Message
Warning	60V_Ind.SchDoc	Off grid MP1 at 5202.457mil,4036.055mil