

VDD

5-12V

INA

INB

LED1

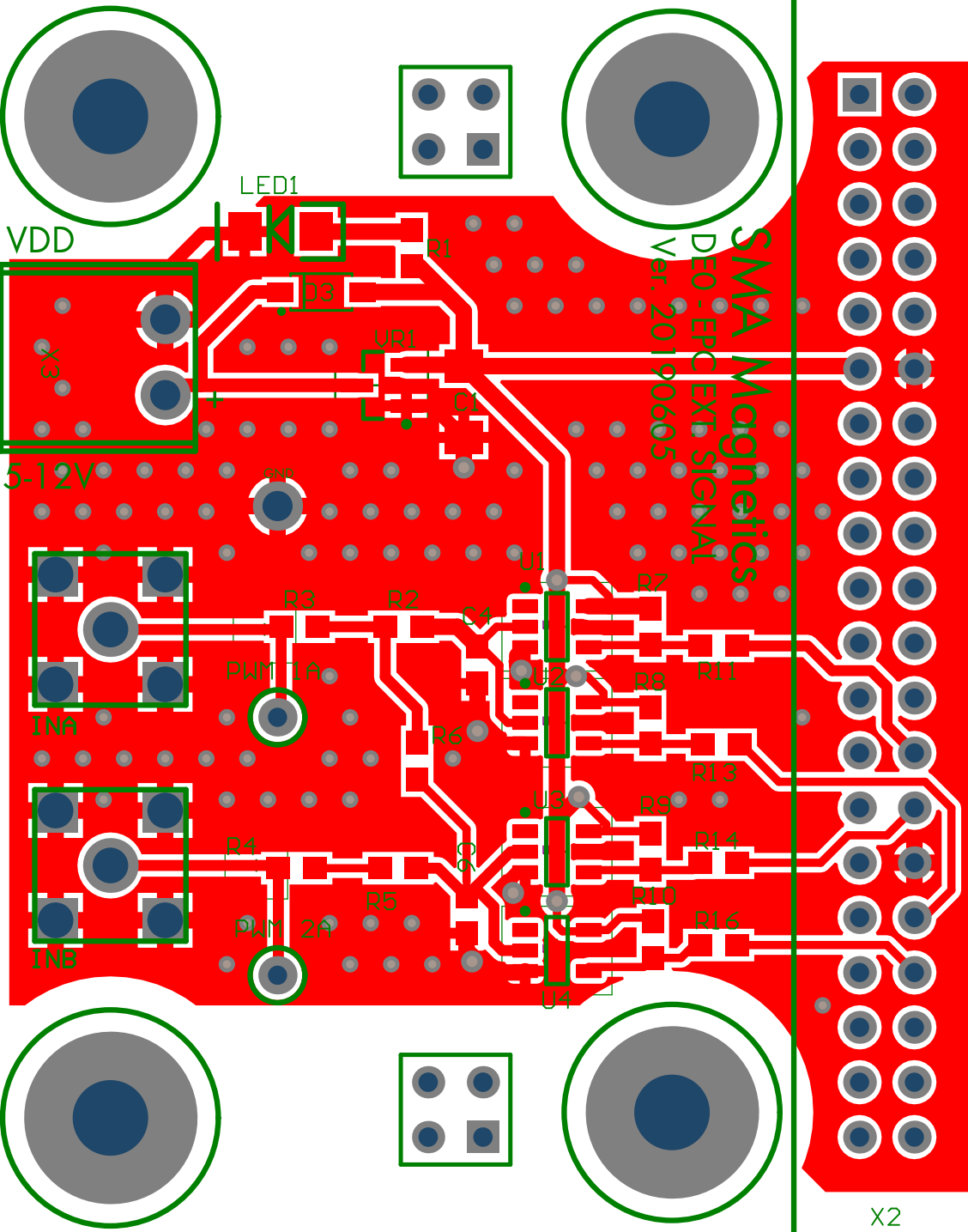
PWM 1A

PWM 2A

GND

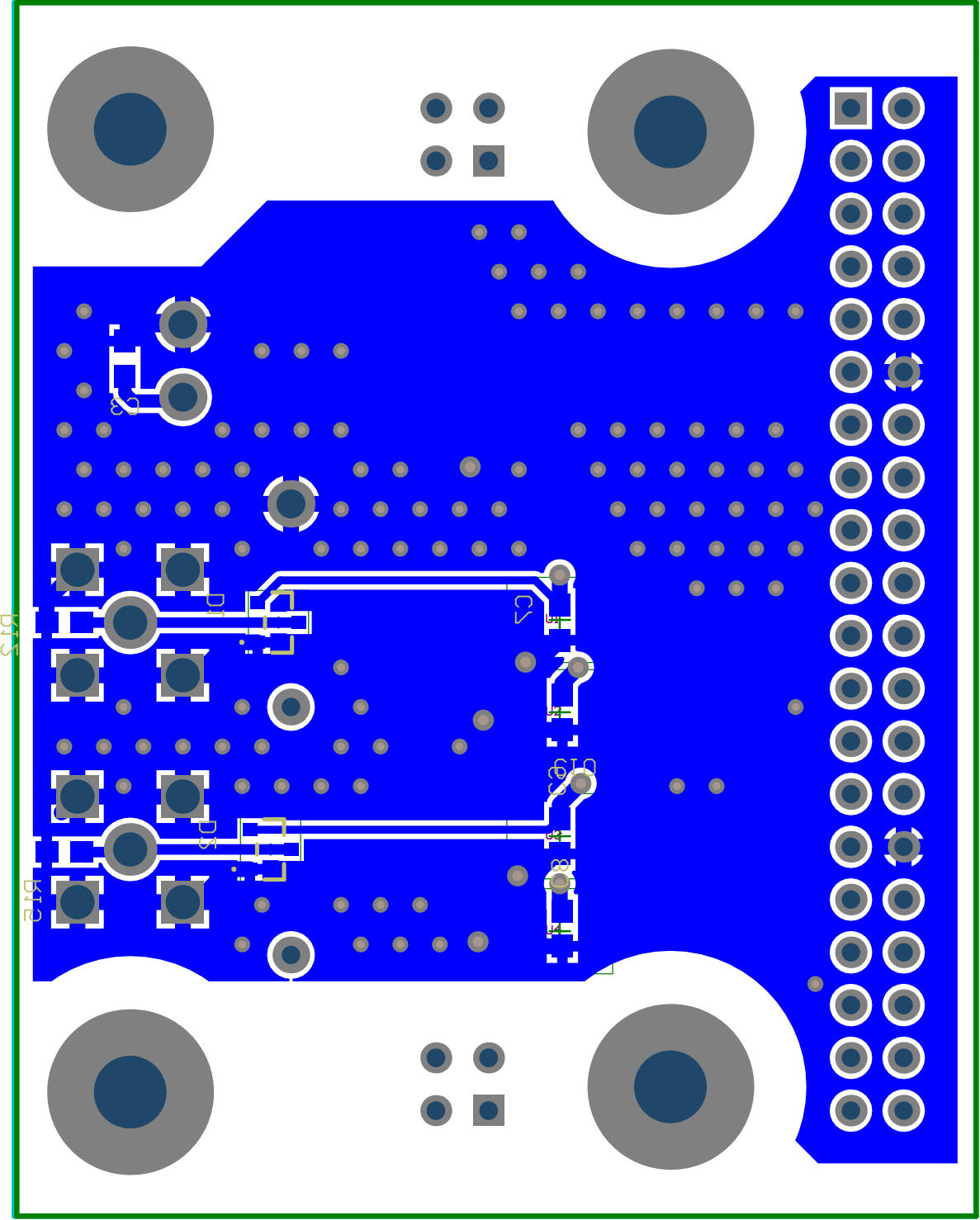
SMA Magnetics  
DE0 - EPC EXT. SIGNAL  
Ver. 20190605

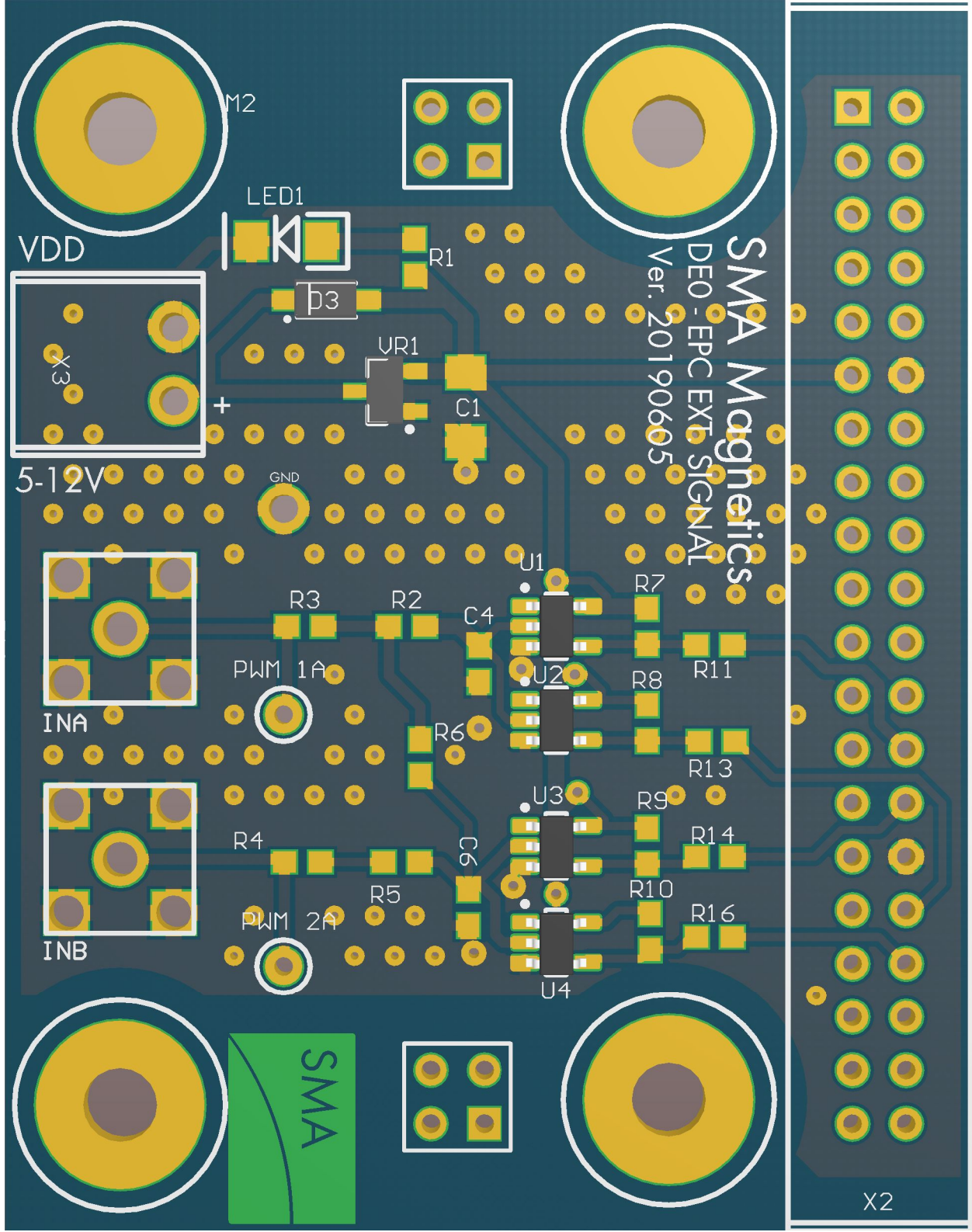
X2

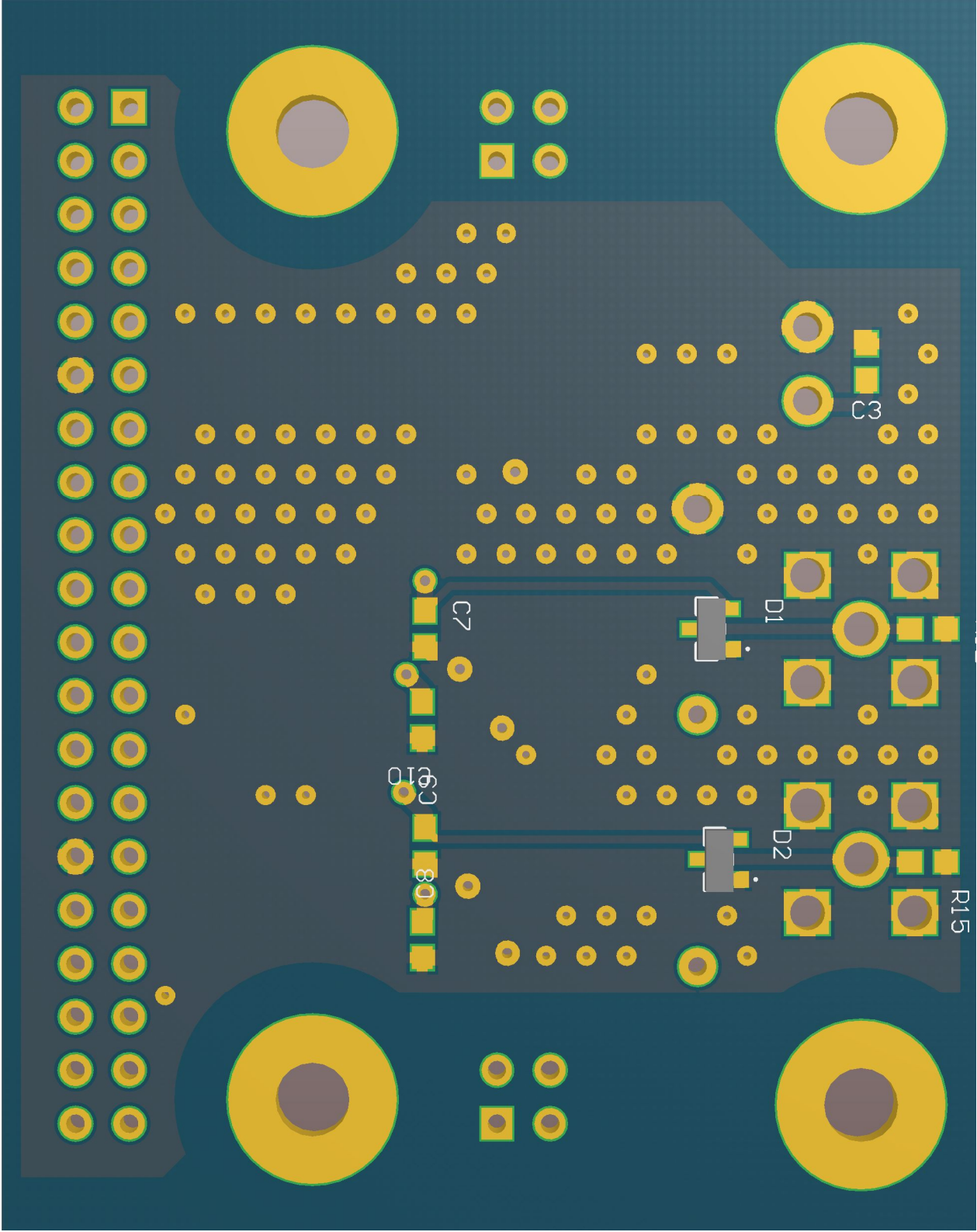




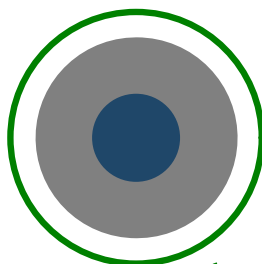
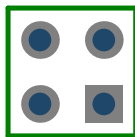
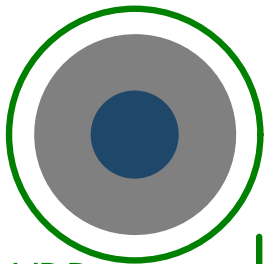












VDD

LED1



R1



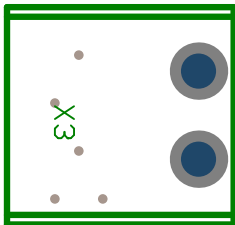
UR1



C1



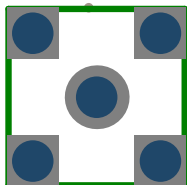
+



5-12V

GND

SMA Magnetics  
DE0 - EPC EXT. SIGNAL  
Ver. 20190605



INA



R3

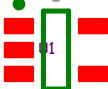


R2

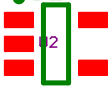
C4



U1



U2



R7



R8

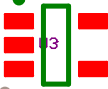
R11



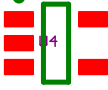
R13



U3



U4



R9



R10



R14



R16



R4



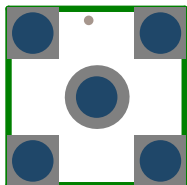
R5



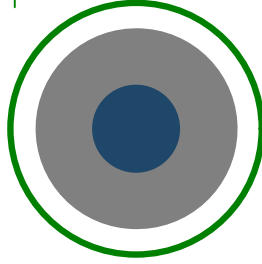
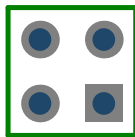
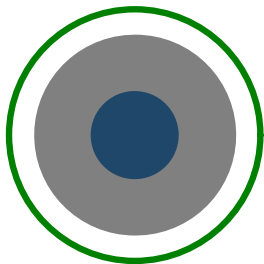
C6



PWM 2A

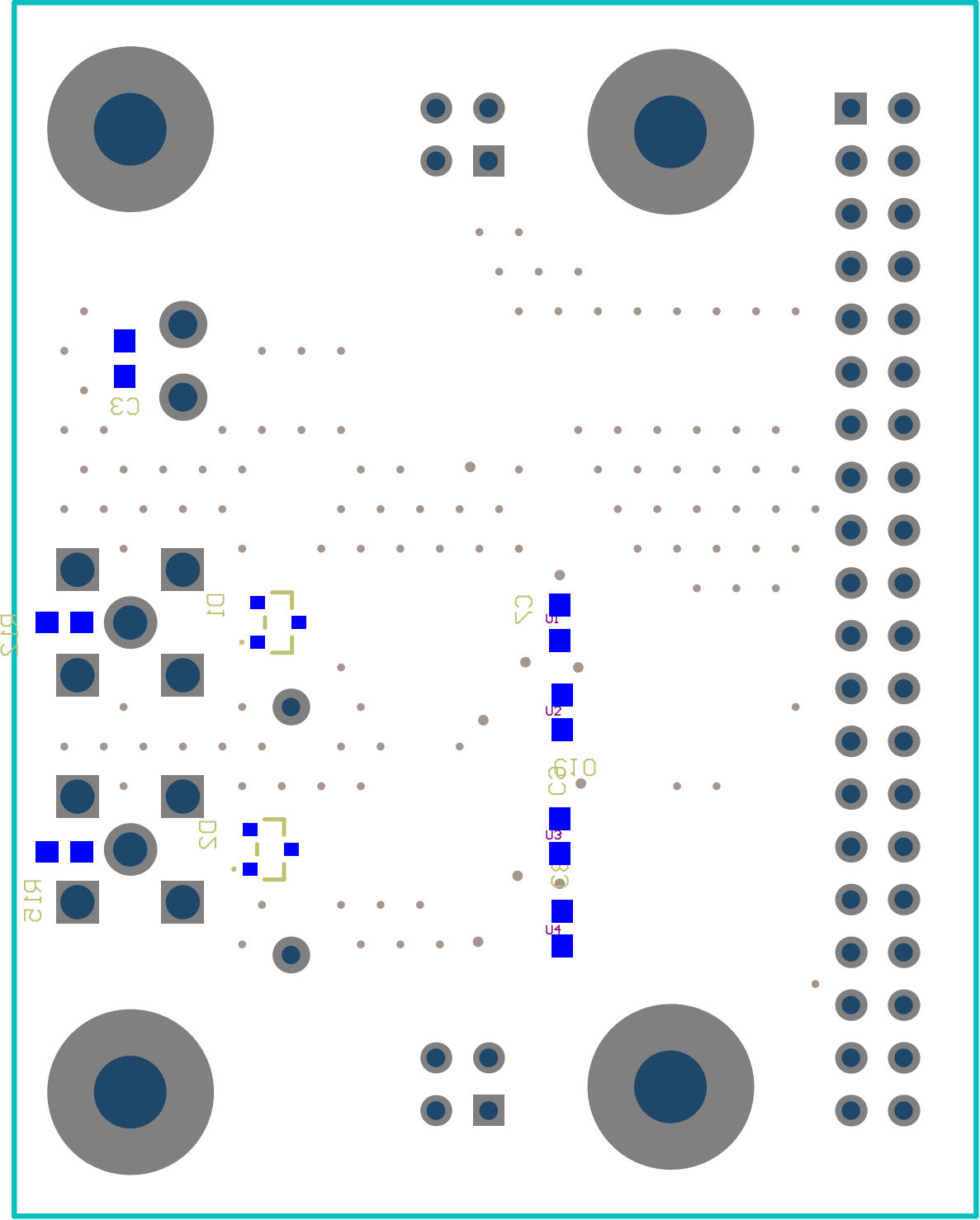


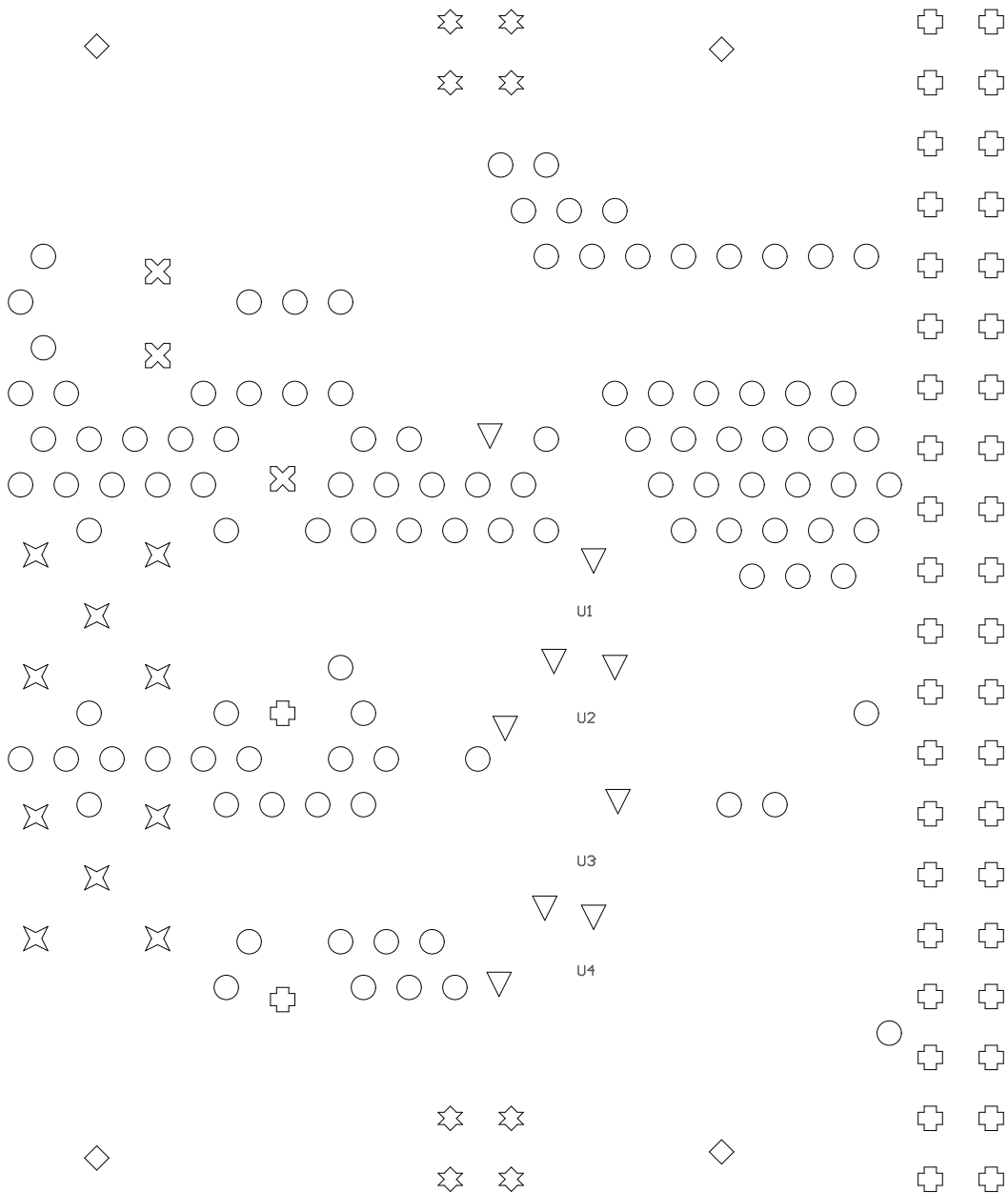
INB

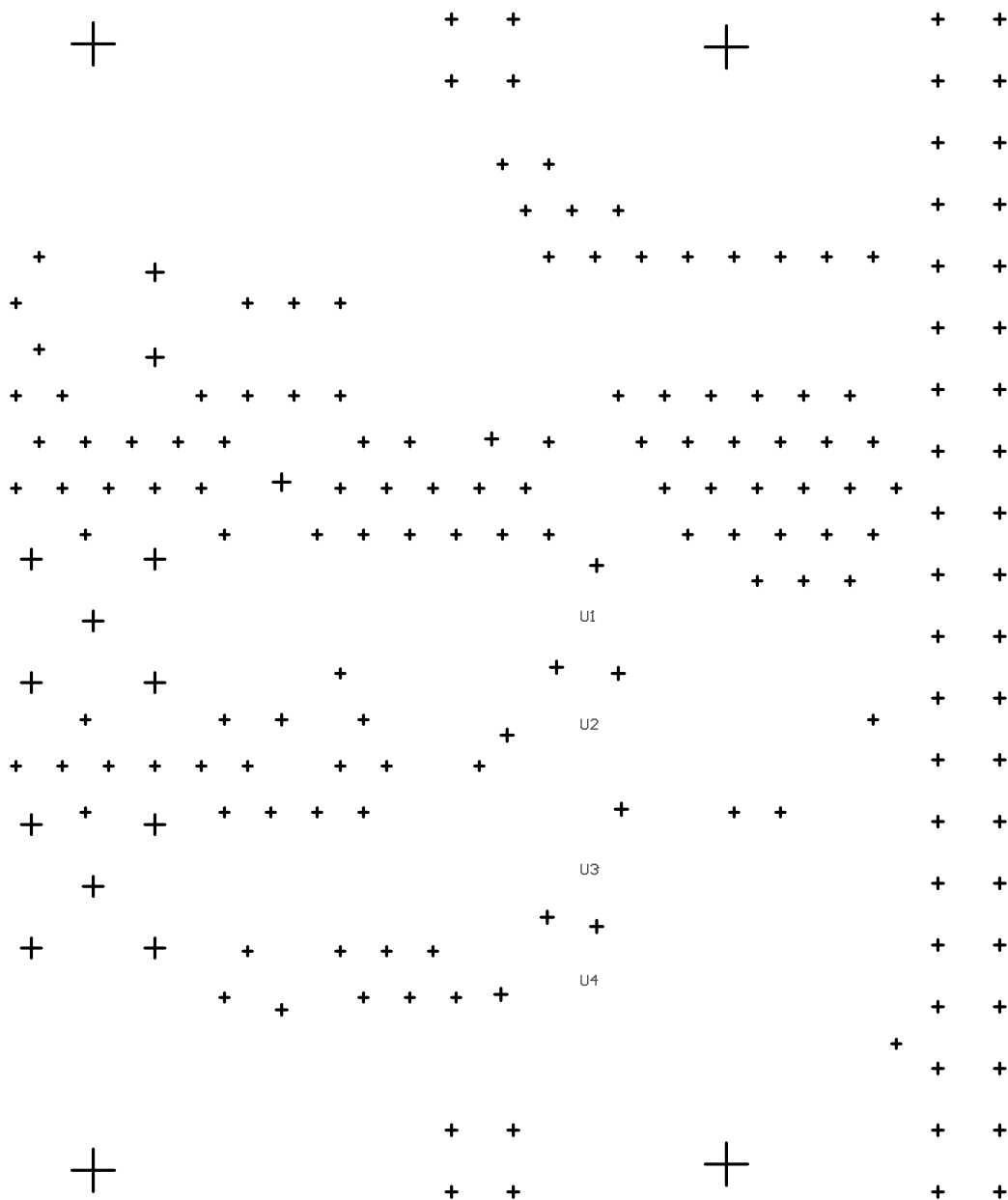


X2

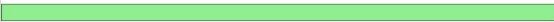






















# Board Stack Report

Stack Up		Layer Stack			
Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3	  	Top Solder	Solder Resist	0.010mm	3.5
4	  	Top Layer	Copper	0.035mm	
5		Dielectric 1	FR-4	1.500mm	4.2
6	  	Bottom Layer	Copper	0.035mm	
7		Bottom Solder	Solder Resist	0.010mm	3.5
8		Bottom Overlay			
9		Bottom Paste			
	Height : 1.590mm				

Designator		Comment	Footprint	LibRef	ClassName	PartNumber	Quantity	
C1	10u		1206	C		CGA5L1X7R1E106K160AE	1	
C3, C7, C8, C9, C10	100n		0603	C		VJ0603Y104KXXCW 1BC	5	
C4, C6	33p		0603	C		06-19330212	2	
D1, D2	BAT54S		NXP-SOT23-3_V	CMP-0417-00005-1		BAT54S	2	
D3	SKL18		SOD123_D	DIODE_SCHOTTKY		SKL18	1	
INA, INB	SMA_CON		SMA	SMA_CON			2	
LED1	LED		1206_D	LED		KPTD-3216PBC-A	1	
M1, M2, M3, M4	M3		PK_M3	PK	Mechanical		4	
PWM 1A, PWM 2A	PK		PK	PK			2	
R1	1k0		0603	R		05-041004	1	
R2, R3, R4, R5, R6, R11, R13, R14, R16	47R0		0603	R		05-044702	9	
R7, R8, R9, R10, R12, R15	10k		0603	R			6	
U1, U4	SN74LVC1G07DBVR		DBV0005A_M	CMP-0859-00129-3			2	
U2, U3	SN74LVC1G06DBVR		DBV0005A_M	CMP-0859-00127-3			2	
VR1	MCP1703T-5002E/CB		SOT-23A-CB3_N	MCP1703T-1202E/CB			1	
X1a, X1b	Header 2X2		HDR2X2	Header 2X2			2	
X2	Header_40		IDC40	Header_40		DS1011-40SBSIB7	1	
X3	Plug socket 2 pole		TBG2-3.5MM_H	Header_2		15EDGRC-3.5-02P-14	1	