

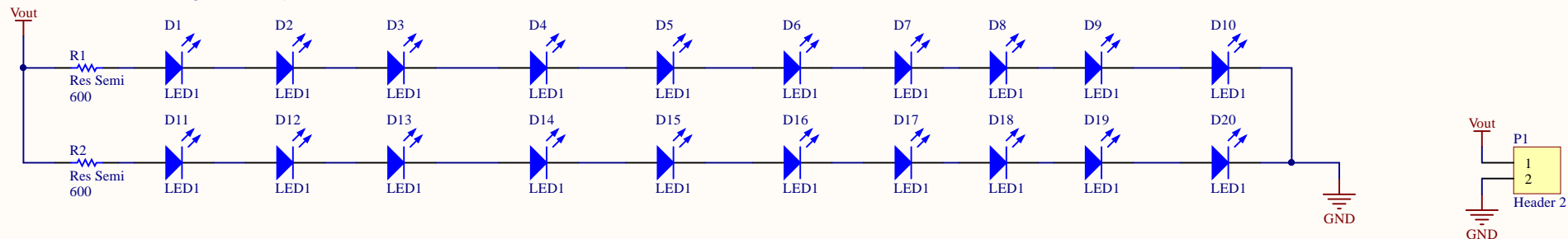
1

2

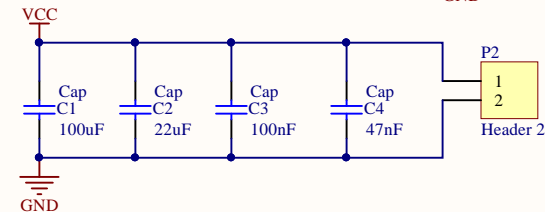
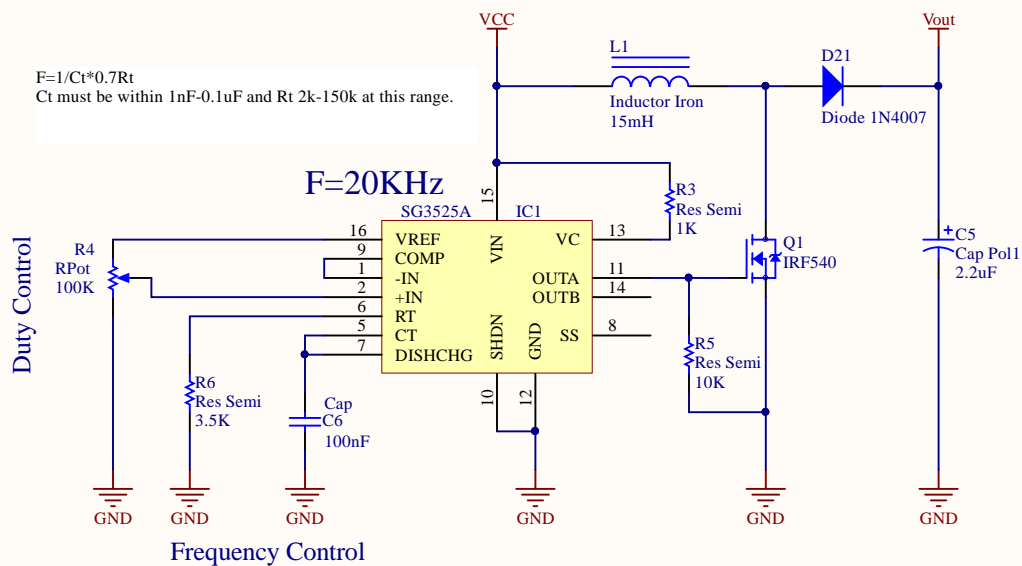
3

4

15mA x 21V



$F = 1/Ct * 0.7Rt$
Ct must be within 1nF-0.1uF and Rt 2k-150k at this range.



Duty Control

Frequency Control

Title		
Size	Number	Revision
A4		
Date:	3.01.2022	Sheet of
File:	C:\Users\...\Boost_Converter.SchDoc	Drawn By:

1

2

3

4

Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C3, C4, C6	RAD-0.3	Cap	5
Cap Pol1	Polarized Capacitor (Radial)	C5	RB7.6-15	Cap Pol1	1
LED1	Typical RED GaAs LED	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20	LED-1	LED1	20
Diode 1N4007	1 Amp General Purpose Rectifier	D21	DO-41	Diode 1N4007	1
SG3525A	PWM GENERATOR IC	IC1	SG3525A	SG3525A	1
Inductor Iron	Magnetic-Core Inductor	L1	AXIAL-0.9	Inductor Iron	1
Header 2	Header, 2-Pin	P1, P2	HDR1X2	Header 2	2
IRF540	N-Channel 100V 22A _Tc_ 85W _Tc_ Through Hole TO-220AB	Q1	TO254P1052X465X1989-3	IRF540	1
Res Semi	Semiconductor Resistor	R1, R2, R3, R5, R6	AXIAL-0.5	Res Semi	5
RPot	Potentiometer	R4	VR5	RPot	1