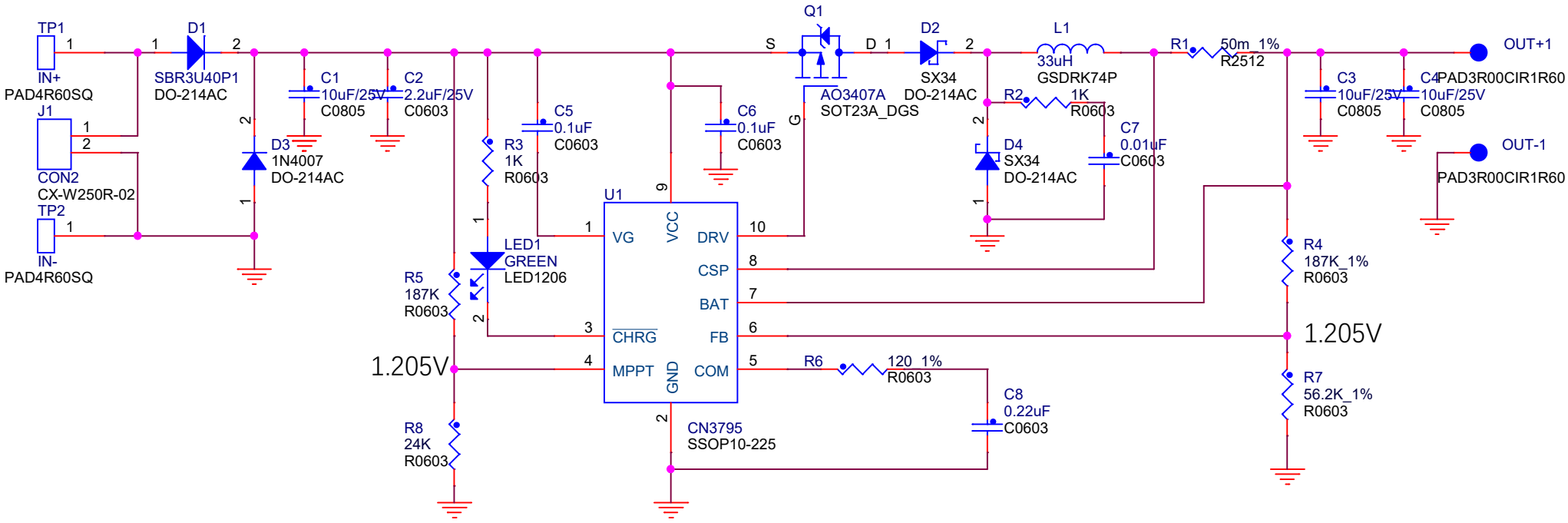

IR1=120mV/50mOhm=2.4A

Vbat=1.205*(1+R1/R2)+Ib*R1
=1.205*(1+187K/56.2K)+60nA*187K
=5.215V+0.011V=5.226V

Vmppt=1.205*(1+R1/R2)
=1.205*(1+187K/24K)
=10.05V

IL(Indurctor Ripple Current)
=1/(f * L) * Vbat * (1-Vbat/Vcc)
=1/(310K * 0.000047) * 5.226 * (1-5.226/15)
= 0.0686 * 3.405 = 0.234(A)

L>5*(Vcc-Vbat)
L>5*(10-5)
L>25uH

SPACEWIZARD TECHNOLOGY		
Title: **CN3795 SOLAR PAD CONVERTER**		
Size: A	Document Number: **MCB00239**	Rev: **2.0**
Date: Monday, February 14, 2022	Sheet 1 of 1	