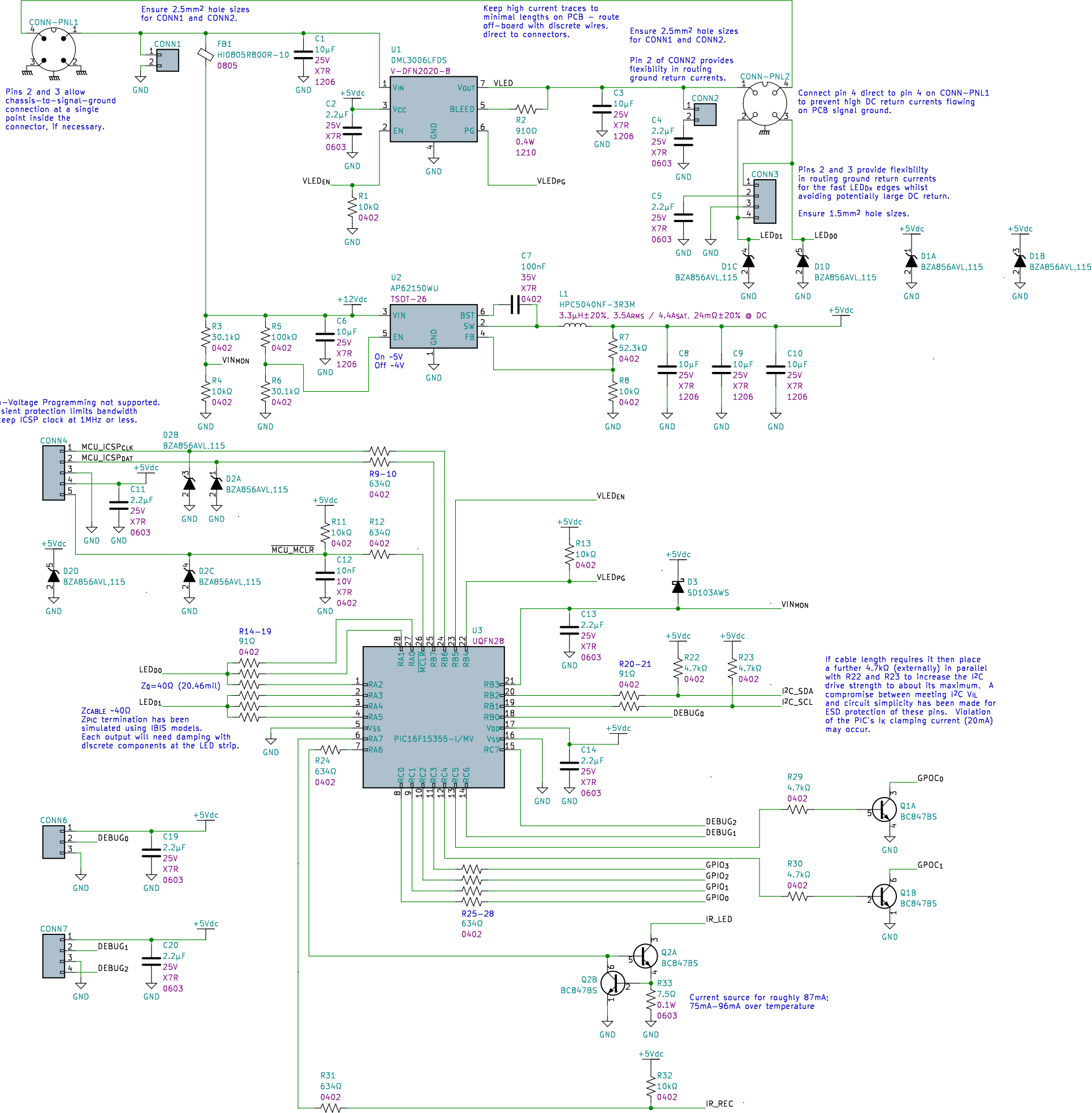


Maximum LED strip is 5m@14.4W/m
Input is 12Vdc±10%, maximum 8A.

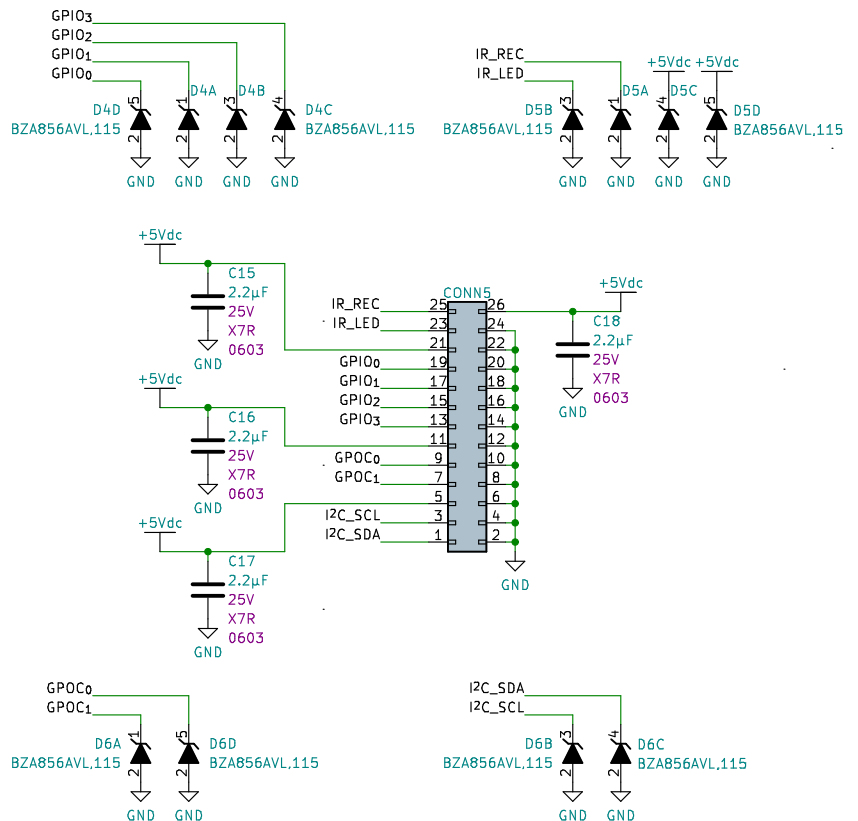


PCB Stackup:
L1 - Signal / Power
L2 - Ground
L3 - Ground
L4 - Signal / Power

JLC Stackup JLC04081H-7628:
Z0=40Q, w=20.46mil, L1-L2
Z0=76.5Q, w=5mil, L1-L2
Z0=85.25Q, w=3.50mil, L1-L2

2) JLC04161H-7628 Stackup

Layer	Material Type	Thickness	
Layer	Copper	0.035mm	
Prepreg	7628*1	0.2104mm	
inner Layer	Copper	0.0152mm	1.1mm (with copper core)
Core>	Core	1.065mm	
inner Layer	Copper	0.0152mm	
Prepreg	7628*1	0.2104mm	
Layer	Copper	0.035mm	



Unless otherwise specified:
All resistors are thick-film ±1% ±100ppm
All 0402 resistors are 0.0625W, 0603 are 0.1W and 0805 are 0.25W
All unpolarised capacitors are MLCC ±10% with X7R tempo

Drives two strips of 60 LEDs/m at 14.4W/m; max 5m (8A) total

Pete Restall <pete@restall.net>

Sheet: /
File: kitchen-led-strips.kicad_sch

Title: Kitchen WS2812B RGB LED Strip Controller

Size: A3 Date: Aug 2023

Rev: 1.0

KiCad E.D.A. kicad 6.0.11-3.fc37

Id: 1/1