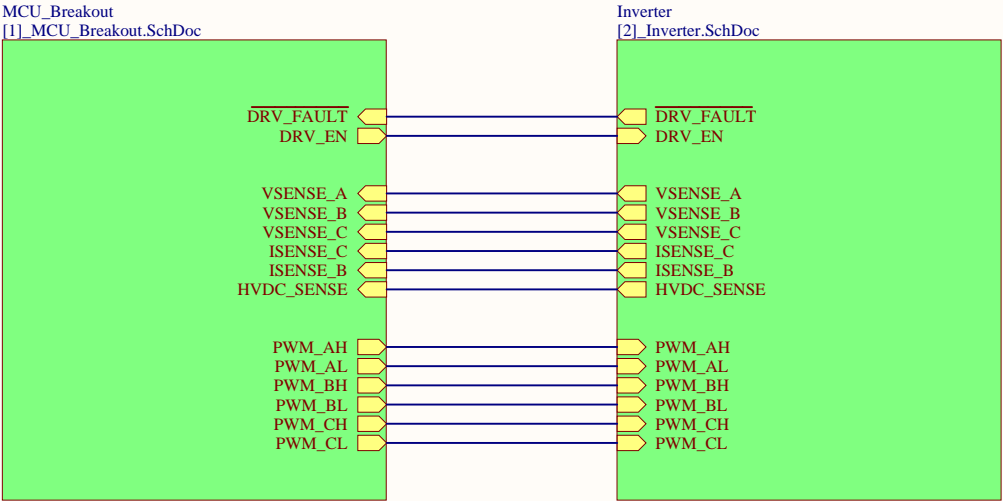


Microinverter for brushless motors

SPECS & FEATURES

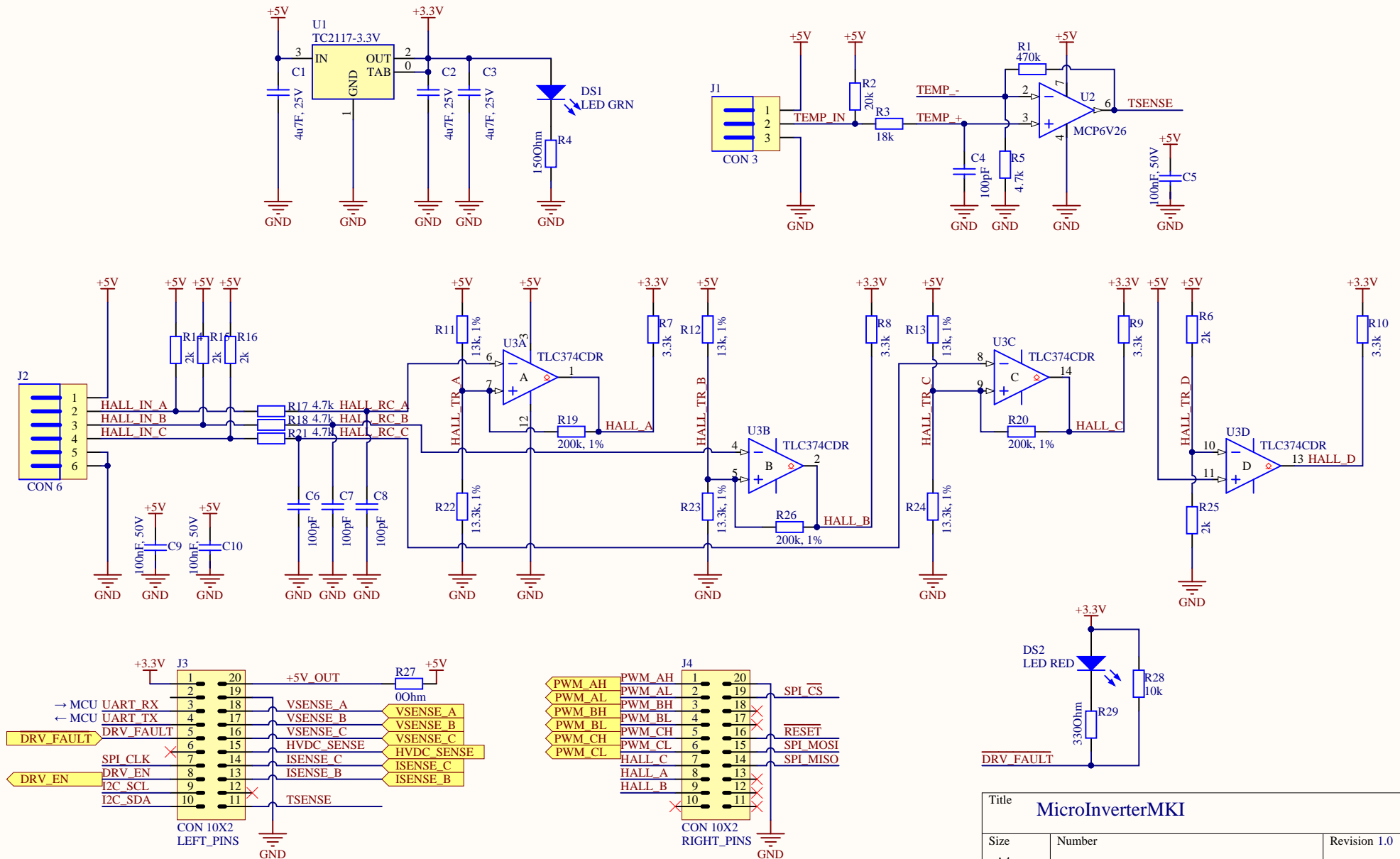
- Max input: 48V DC (60 V short-term tolerance)
- Min input: 6V DC
- Max phase current: 15A RMS pk, 20A RMS cnt.
- Switching frequency: 24kHz recommended
- Launchpad compatible pinout
- 3 x phase voltage sense
- 2 x phase current sense
- DC link voltage sense
- Schmitt triggered Encoder or Hall sensor input

BLOCK DIAGRAM



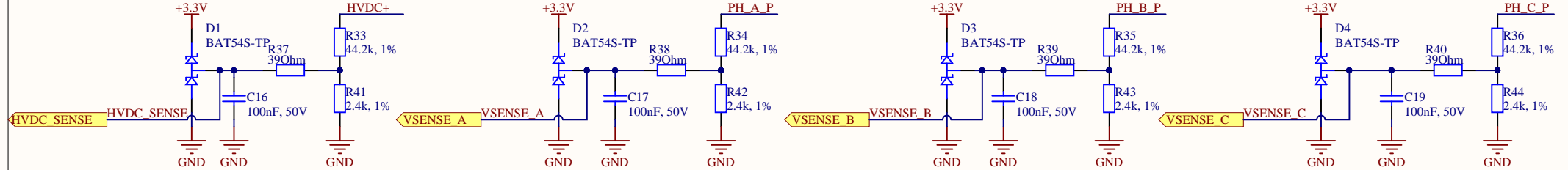
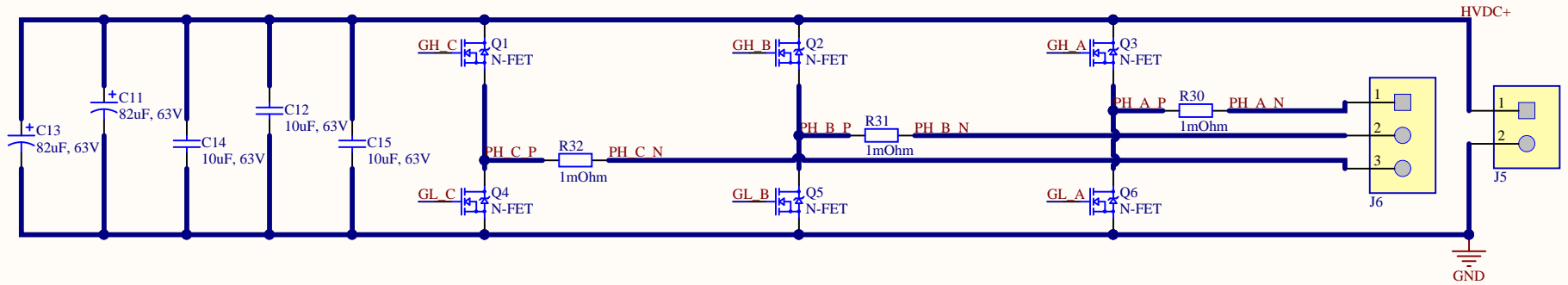
Title MicroInverterMKI		
Size A4	Number	Revision 1.0
Date:	2.7.2019.	Sheet 0 of 2
File:	C:\Users\...\[0]_Block_Diagram.SchDoc	Drawn By: Tomislav Ivaniš

MCU Breakout, ENC/HALL, TSENSE, +3.3V LDO

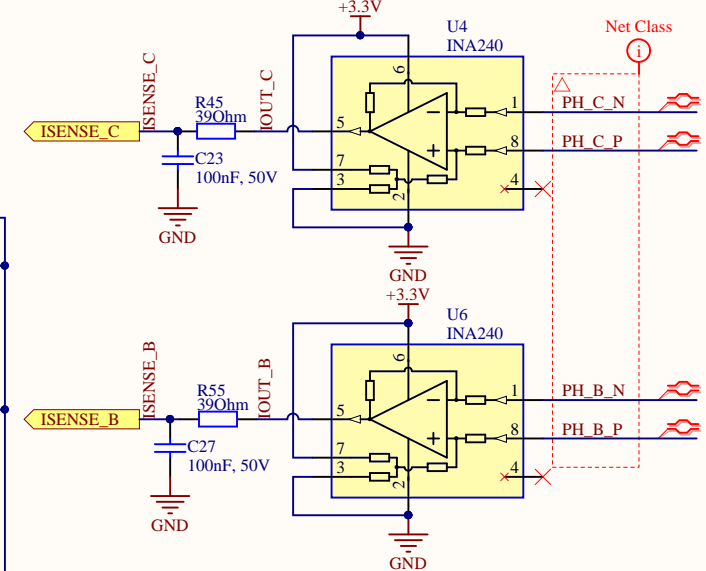
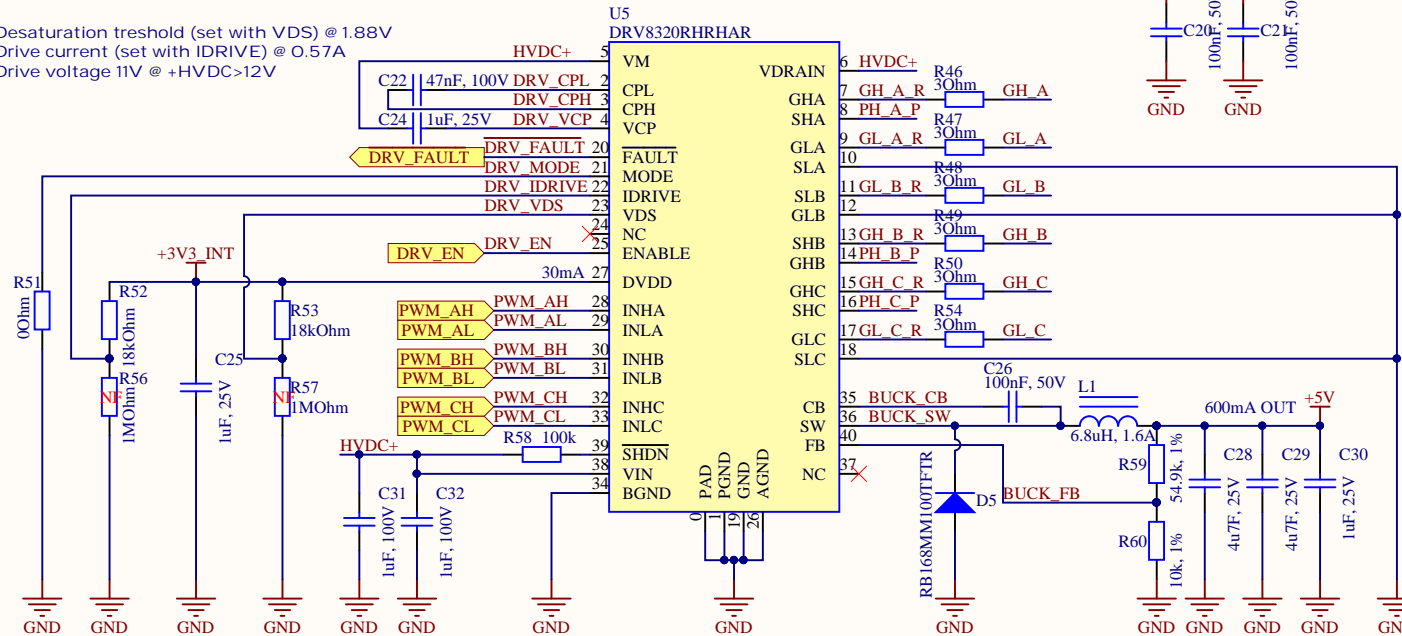


Title		
MicroInverterMKI		
Size	Number	Revision 1.0
A4		
Date:	2.7.2019.	Sheet 1 of 2
File:	C:\Users\...\[1]_MCU_Breakout.SchDoc	Drawn By: Tomislav Ivaniš

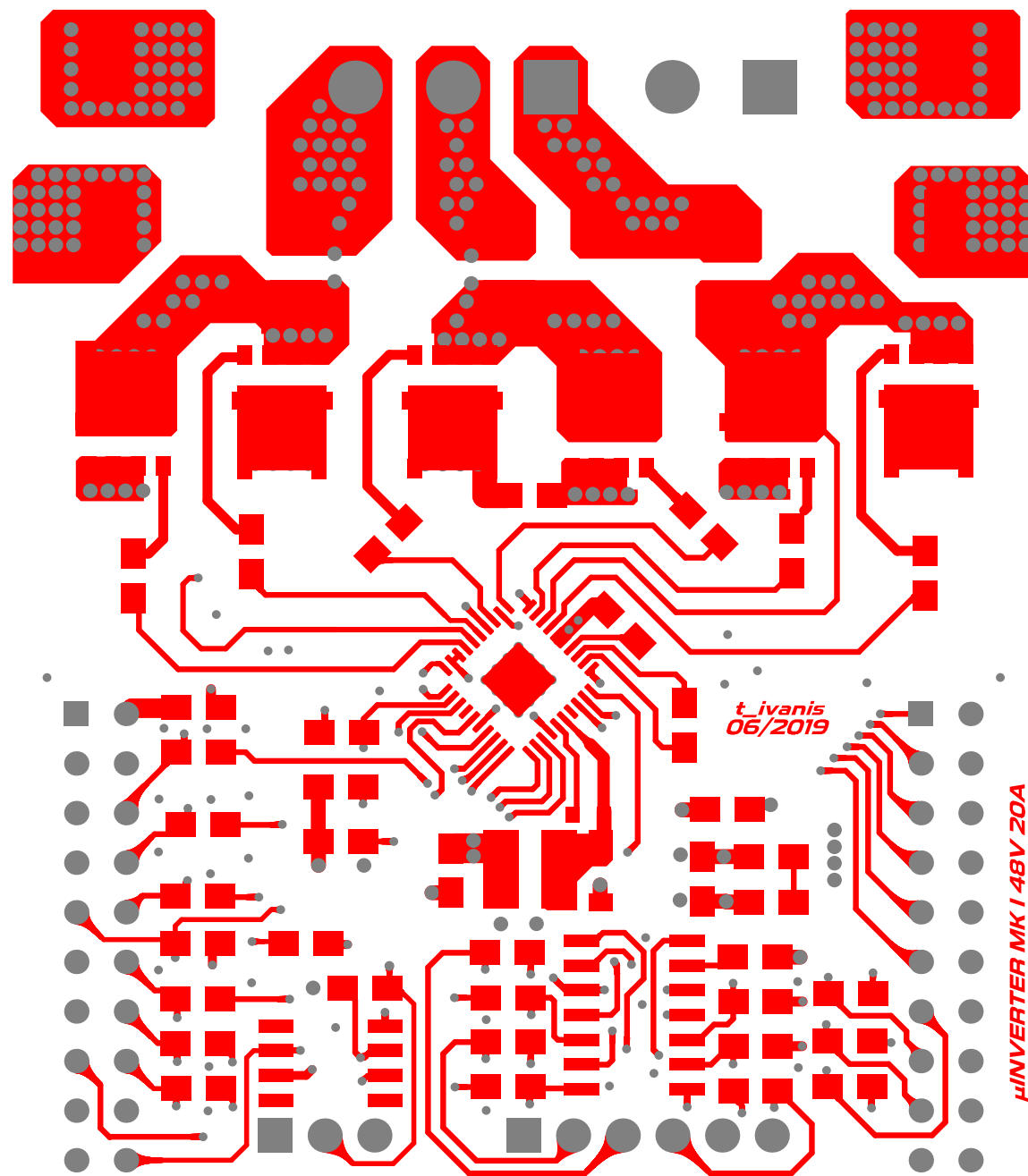
Inverter, Driver & Measurements



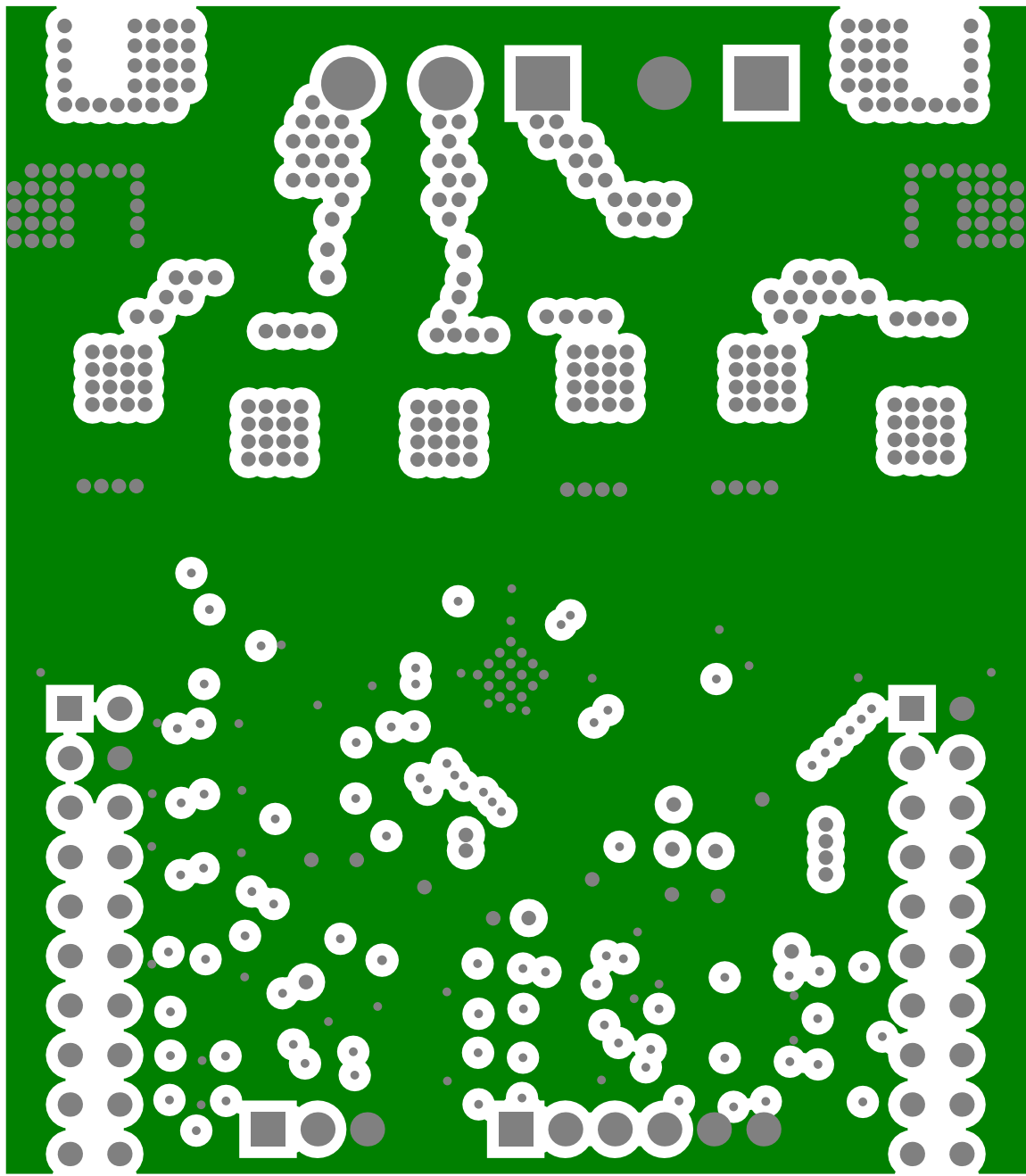
Desaturation threshold (set with VDS) @ 1.88V
Drive current (set with IDRIVE) @ 0.57A
Drive voltage 11V @ +HVDC > 12V

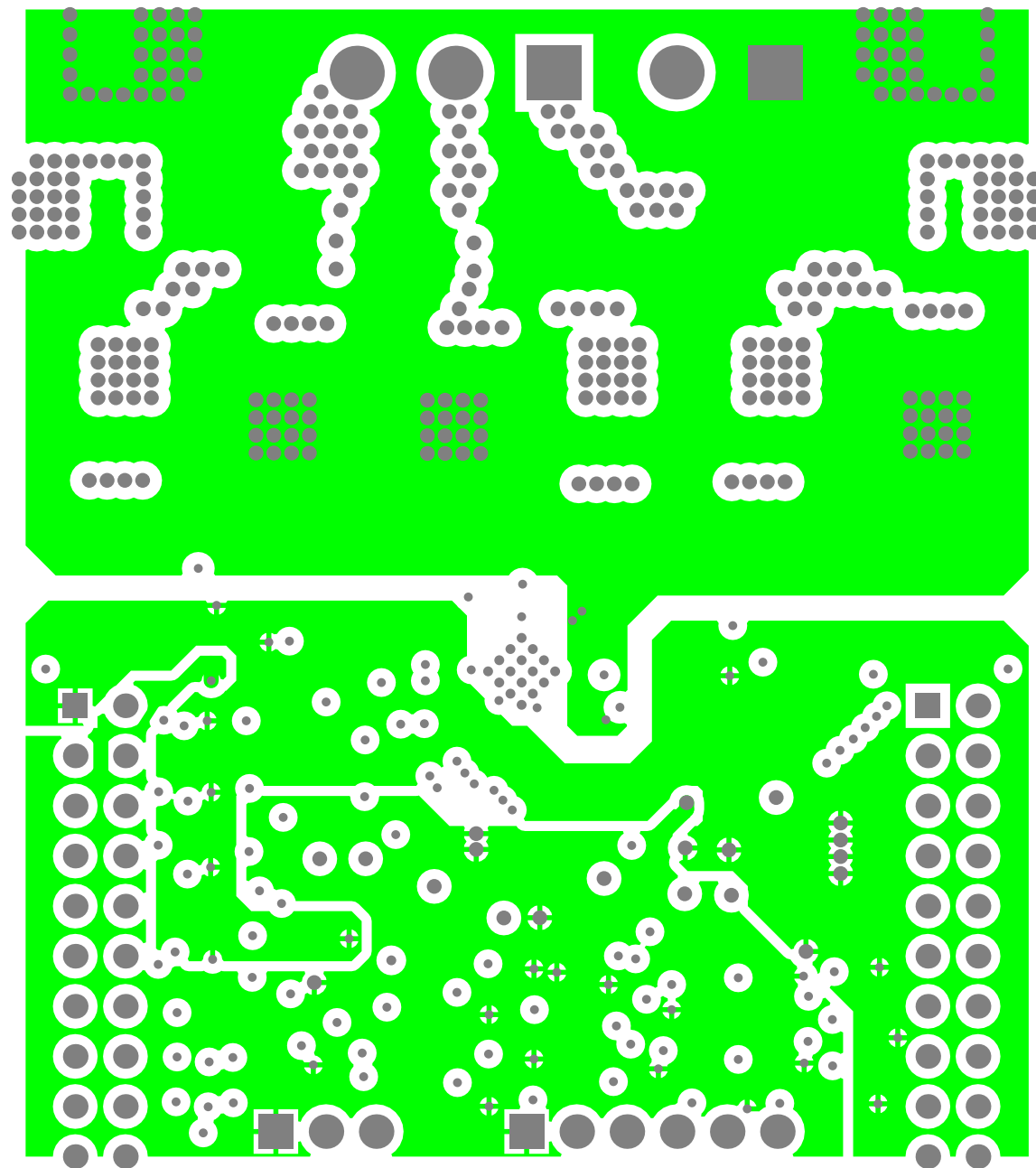


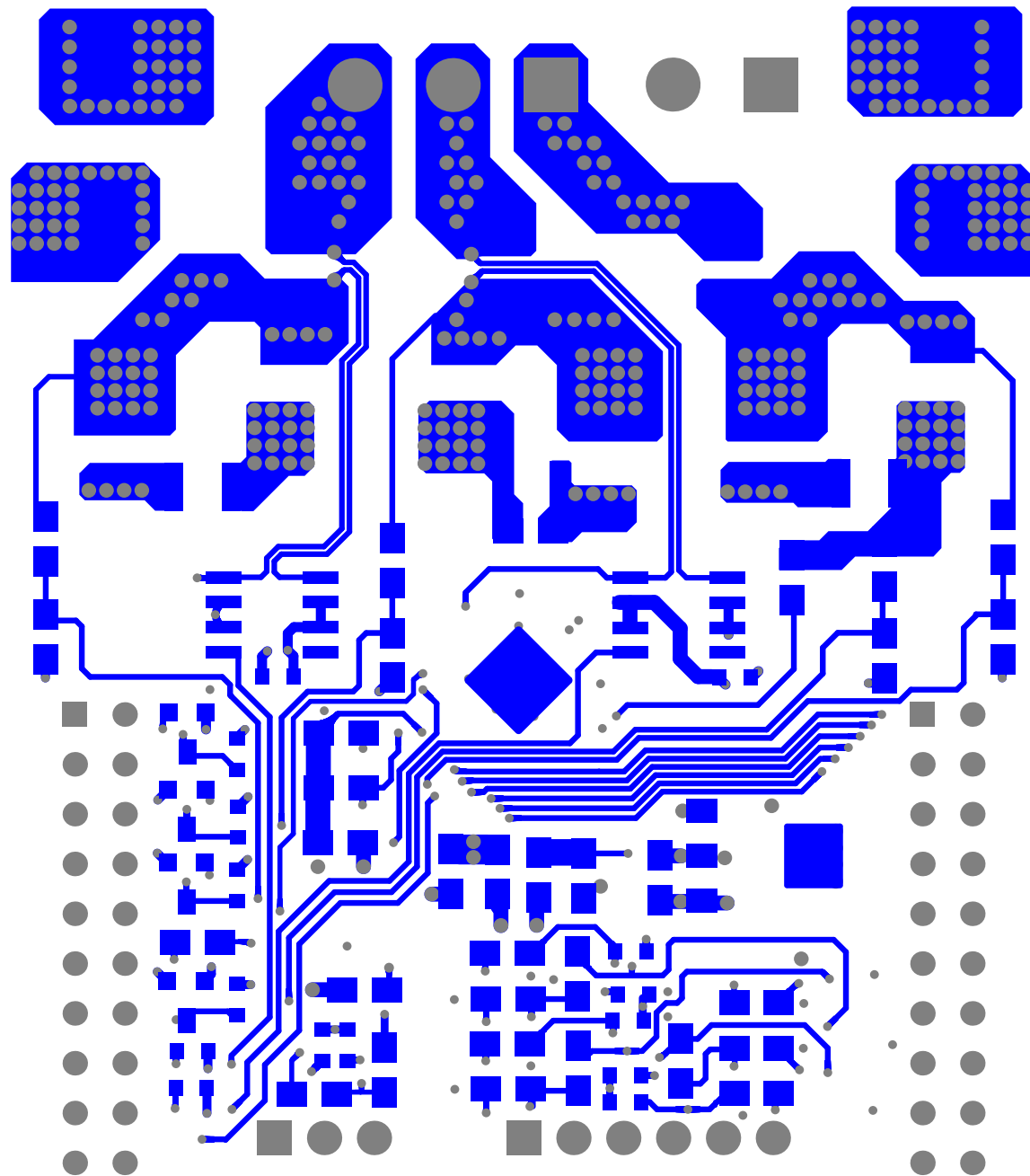
Title		
MicroInverterMKI		
Size	Number	Revision
A4		1.0
Date:	2.7.2019.	Sheet 2 of 2
File:	C:\Users\...\[2]_Inverter.SchDoc	Drawn By: Tomislav Ivaniš

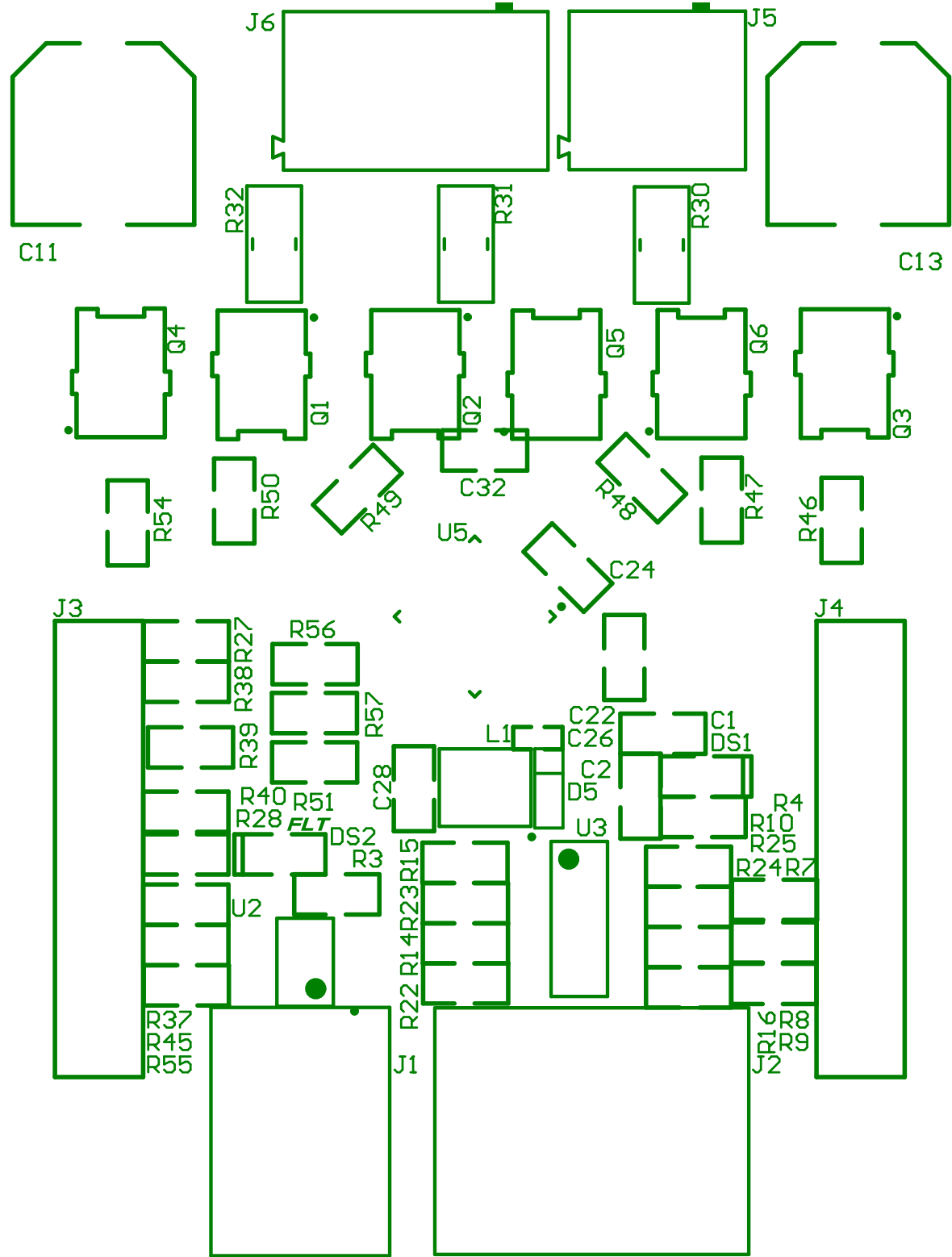


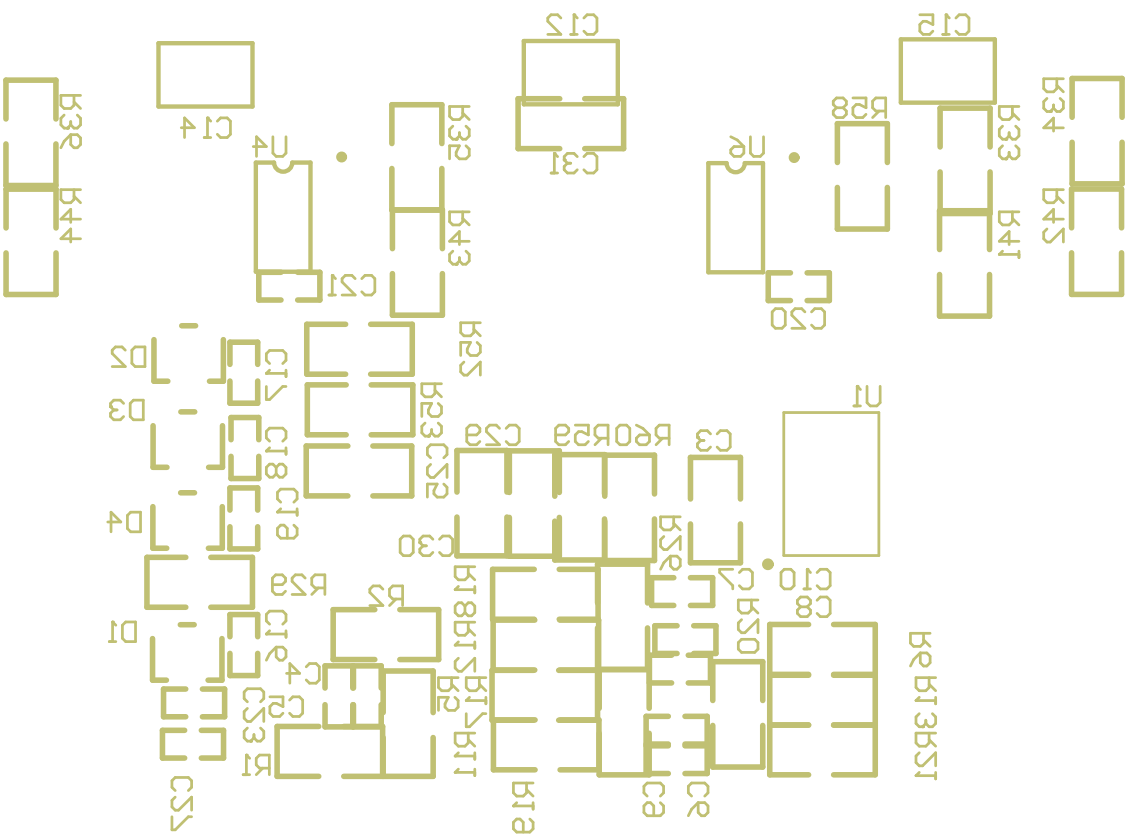
µINVERTER MK I 48V 20A

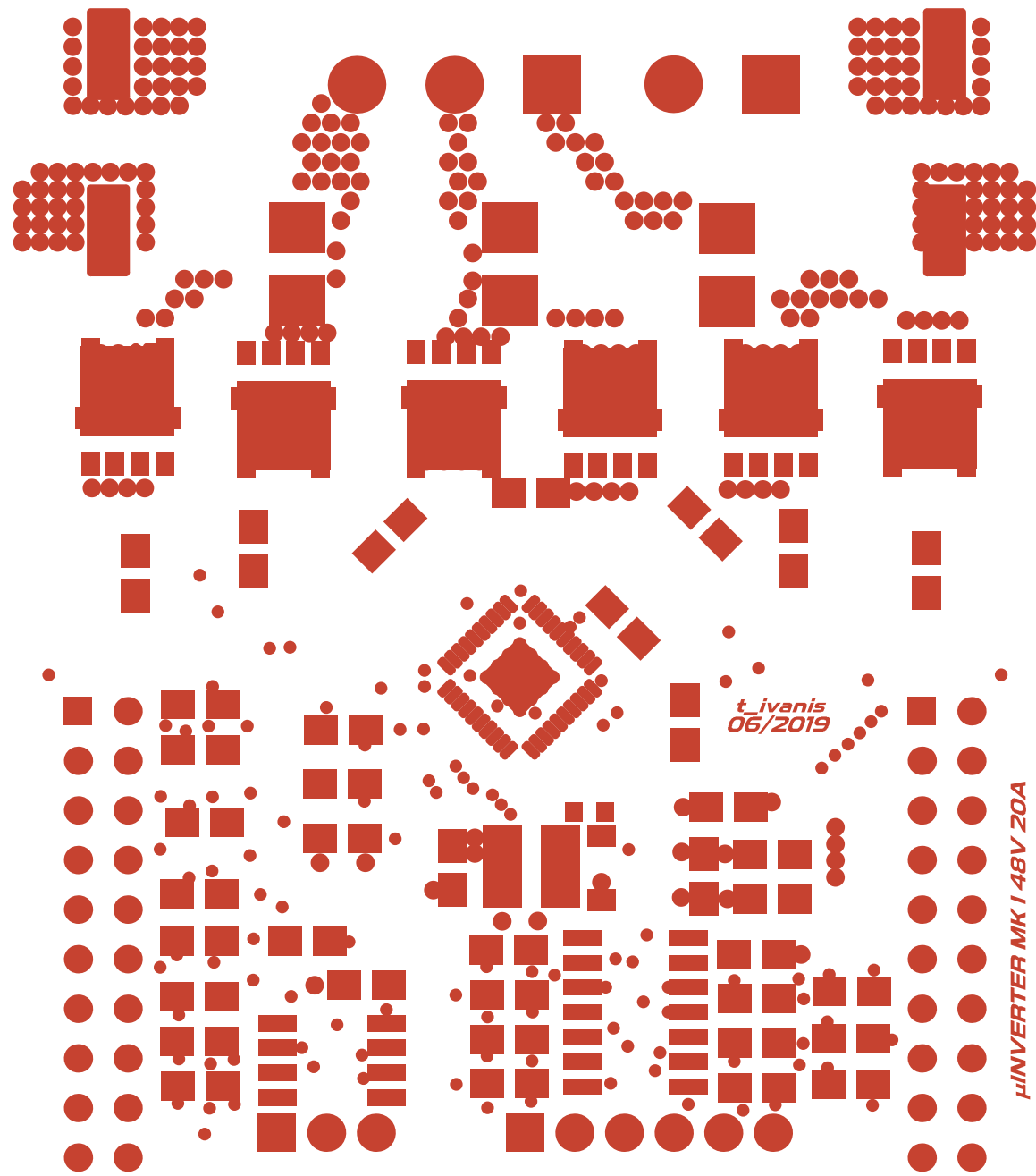












t_ivanis
06/2019

μINVERTER MK I 48V 20A

