

REV	DESCRIPTION	DATE	APPROVED
1	APPLICATIONS ENGINEERING	5/26/2020	VD

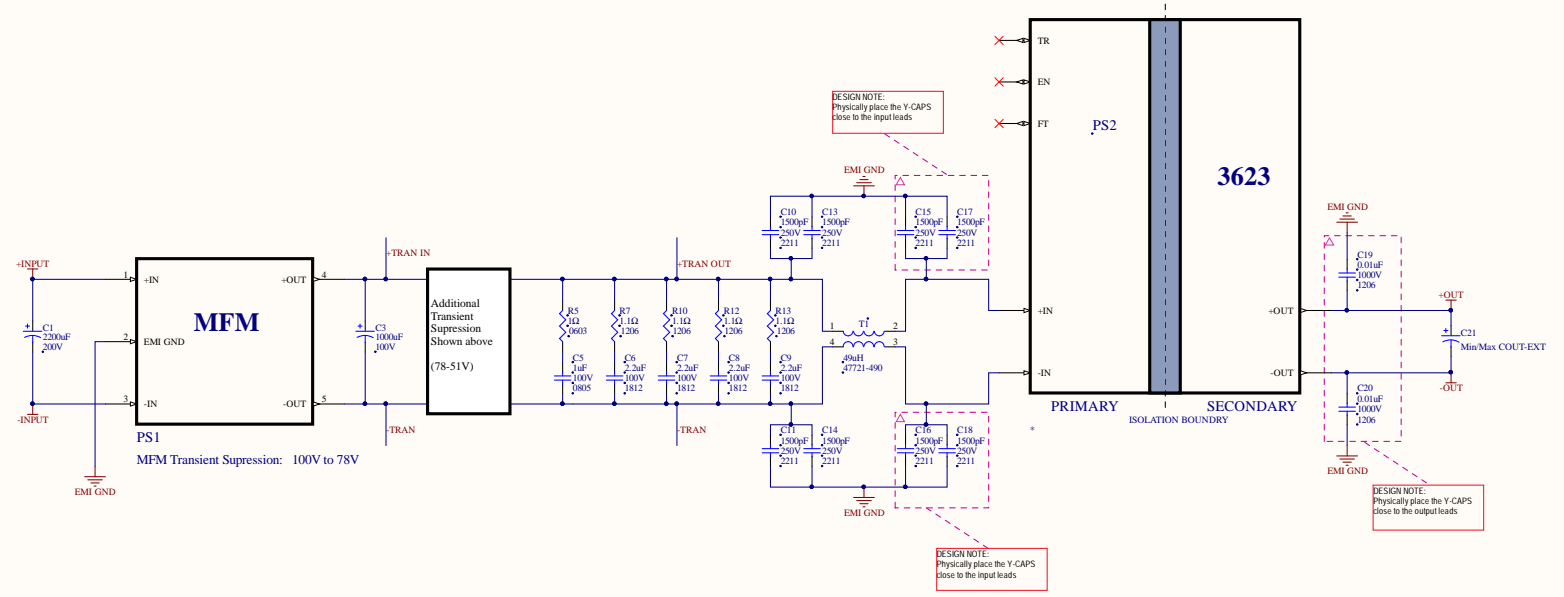
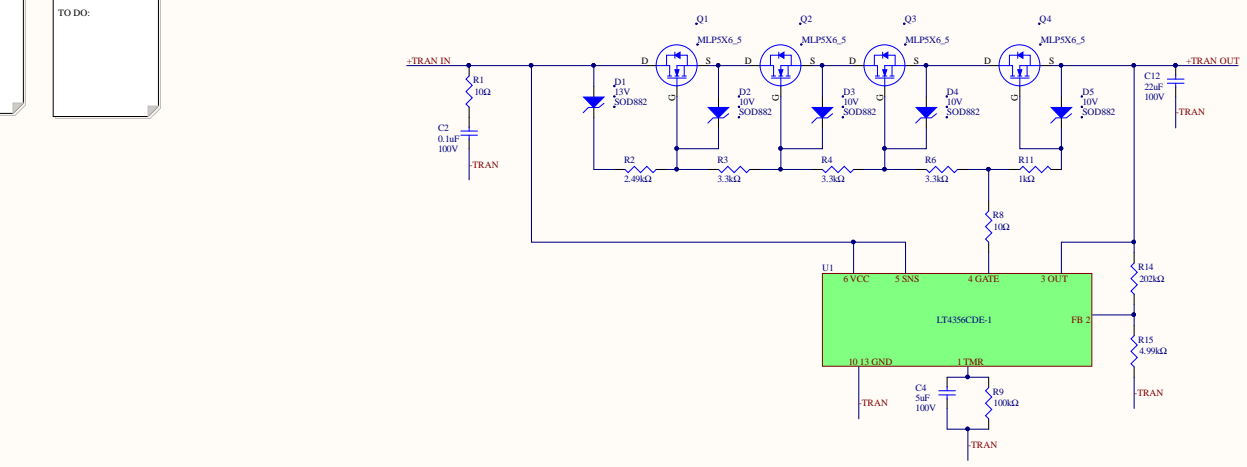
BOARD REVISION NOTES

REVISION NOTES:

1 - Redrawn based on existing schematic; 5/26/2020

SHEET TO DO

TO DO:



A

SCHEMATIC
LV_Filter_Ref_Design

DWG NO.	REV
LV_Filter_Ref_Design_SCH	#1

DRAWN: Vamsi Doradala DATE: 5/26/2020 SCALE: scale SHEET 1 OF 1

REFERENCE DESIGNATOR	DESCRIPTION	MFG PART NUMBER	MANUFACTURER	QUANTITY	VALUE NOM	RATING NOM
C1	CAP ALEL 2200uF 20% 200V			1	2200uF	200V
C2	Capacitor			1	0.1uF	100V
C4	Capacitor			1	5uF	100V
C12	Capacitor			1	22uF	100V
C3	Capacitor			1	1000uF	100V
C5	Capacitor	C2012X7S2A105K125AB	TDK	1	1uF	100V
C6, C7, C8, C9	Capacitor	C4532X7R2A225K230KA	TDK	4	2.2uF	100V
C10, C11, C13 - C18	Capacitor	GA352QR7GF152KW01L	Murata Manufacturing	8	1500pF	250V
C19, C20	Capacitor	CC1206KKX7RCBB103 or VJ1206Y103KXGAT5Z	Yageo or Vishay	2	0.01uF	1000V
C21	Low Input Voltage ChiP DCM Minimum/Maximum output capacitor (COUT-EXT)	Refer to respective DCM datasheet for required capacitance and ESR		1		
D1	Zener Diode	BZX884-B13	NXP Semiconductors	1		13V
D2, D3, D4, D5	Zener Diode	BZX884-B10	NXP Semiconductors	4		10V
PS1	16-50V Vin, 350W MIL-STD filter	Vicor	MFM1714x50M50C5yzz	1		
PS2	3623 PANEL MOLDED	Vicor	DCM3623	1		16 - 50Vin
Q1, Q2, Q3, Q4	N-Channel Mosfet	IRFH8202TRPBF	Infineon Technologies AG	4		
R1, R8	Resistor			2	10Ω	
R9	Resistor			1	100kΩ	
R14	Resistor			1	202kΩ	
R15	Resistor			1	4.99kΩ	
R2	Resistor			1	2.49kΩ	
R3, R4, R6	Resistor			3	3.3kΩ	
R5	Resistor	ERJ3RQF1R0V	Panasonic	1	1Ω	
R7, R10, R12, R13	Resistor	RK73H2BTTD1R10F	KOA Speer Electronics	4	1.1Ω	
R11	Resistor			1	1kΩ	
T1	Common mode choke	Vicor	47721-490	1	49uH	22A
U1	Surge stopper	LT4356CDE-1	ADI	1		