SCHEMATIC: DCM3735 1-up Eval Board

REV	DESCRIPTION	DATE	APPROVED
01	PRELIMINARY FOR ENGINEERING	02/25/25	J.A

DCM3735 Duemila 1-up Eval Board

SHEET#	DESCRIPTION
1	Table of Contents
2	System Power Connections
3	Common Signaling
4	DCM-Fusing, Filter, Control
5	System Testpoints
6	Optional +INV Discharge Circuit & Testpoints
7	Mechanical

RAIL	Chipset	Vin[V]	Vout[V]	Iout[A]	Pout [W]
P12V2	DCM3735S60D13L0TN1	40-60	10-12.5	164	2000

TOP-LAYER

FID01 FIDUCIAL

FID03 FIDUCIAL

FID05 FIDUCIAL

BOTTOM-LAYER

FID02 FIDUCIAL

FID04 FIDUCIAL

FID06 FIDUCIAL

MTG100 MTG101

MTG102 MTG103

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SCHEMATIC
DCM3735 1-up Eval Board

ASSEMBLY VARIANT [No Variations]

FILENAME: 55032_1.SchDoc

DRAWN: M. Sreekumar DATE: 2/25/2025

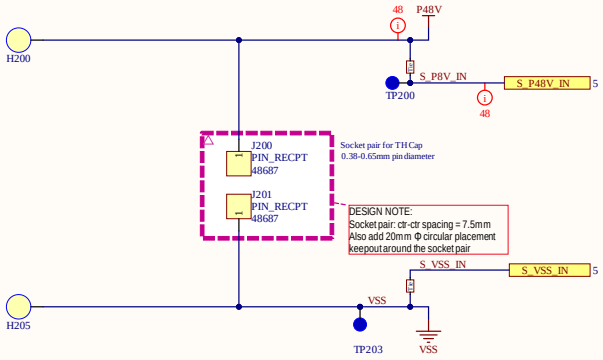
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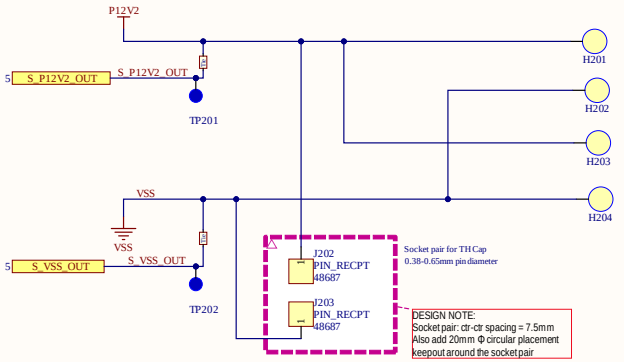
SCALE: 1:1 SHEET 1 OF 7

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	SEE SHEET 1		

System Power Connections





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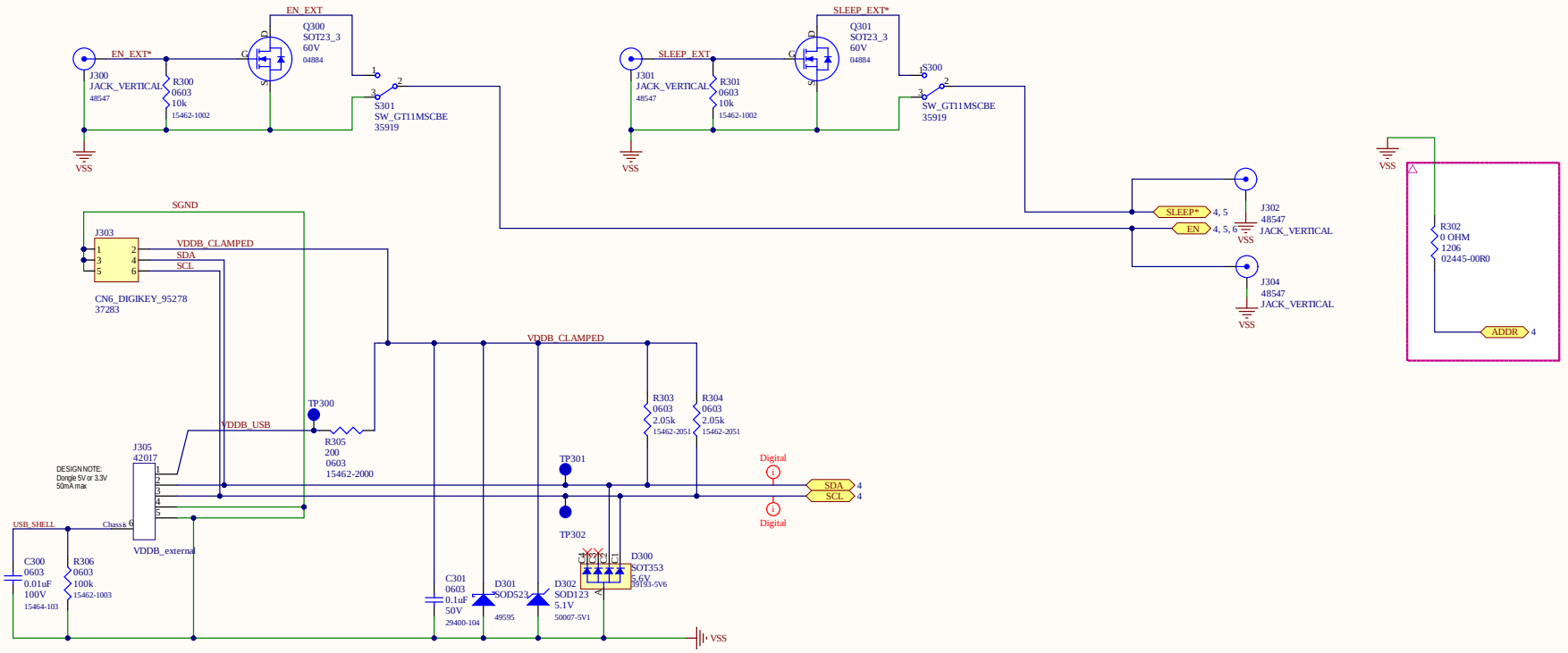
SCHEMATIC
DCM3735 1-up Eval Board

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DRAWN: M. Sreekumar	DATE: 2/25/2025	SCALE: 1:1	SHEET 2 OF 7	

SCHEMATIC: DCM3735 1-up Eval Board

REV	DESCRIPTION	DATE	APPROVED
	SEE SHEET 1		

Common Signaling

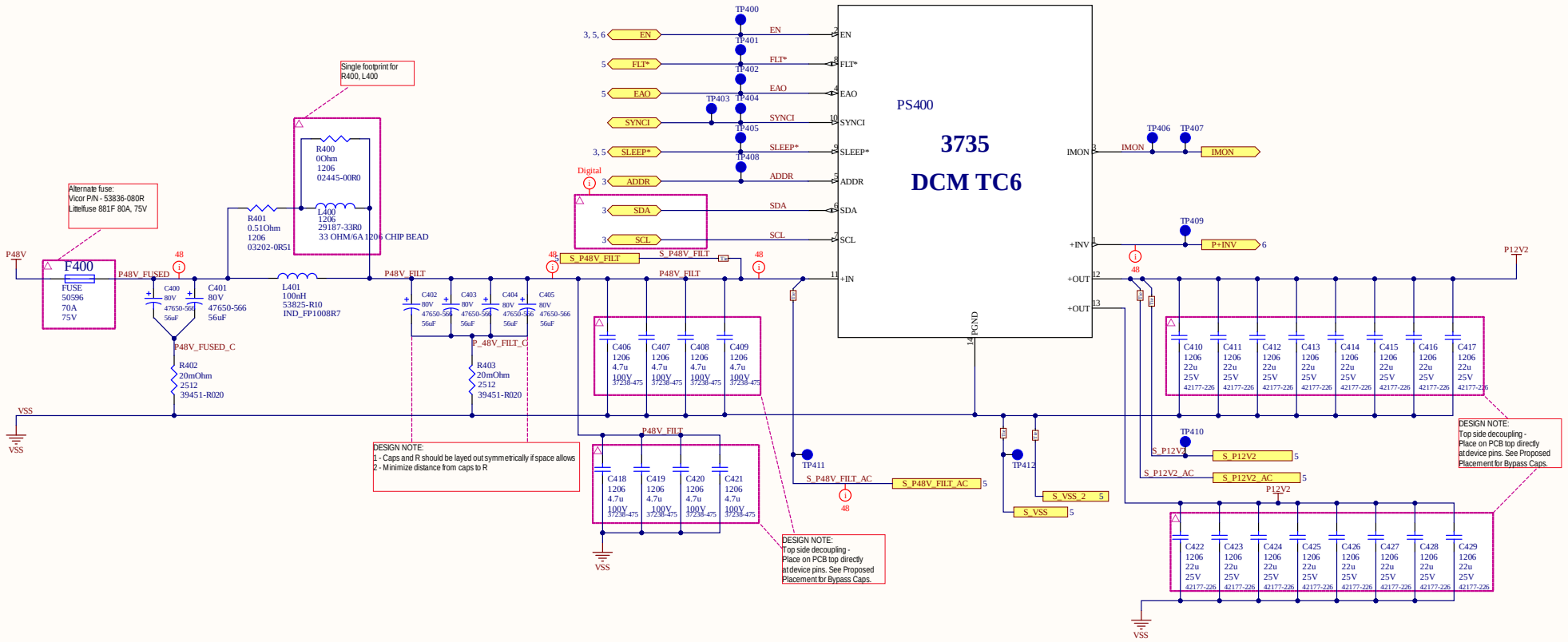


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		SCHEMATIC DCM3735 1-up Eval Board			
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FILENAME: 55032_3.SchDoc					
DRAWN: M. Sreekumar	DATE: 2/25/2025	SCALE: 1:1	SHEET 3 OF 7		

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DCM - Fusing, Filter, Control



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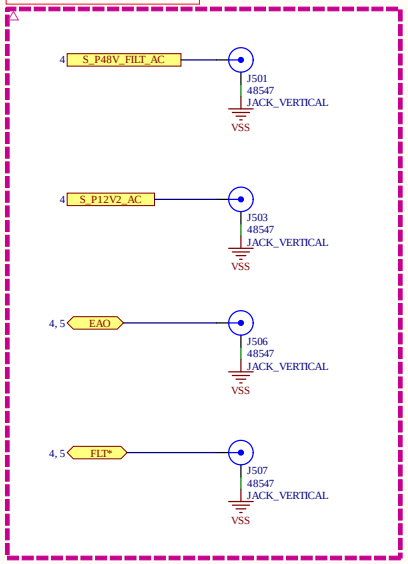
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SCHEMATIC: DCM3735 1-up Eval Board

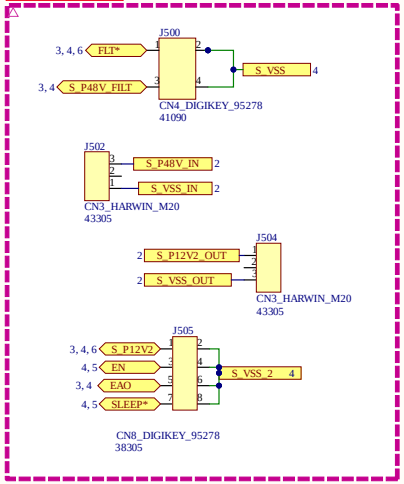
REV	DESCRIPTION	DATE	APPROVED
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System Testpoints

VSS referenced



S_VSS referenced



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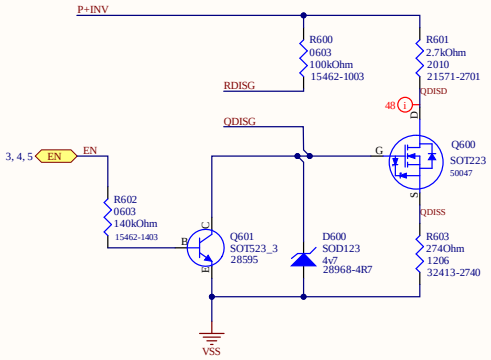
SCHEMATIC
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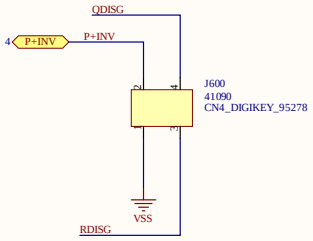
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FILENAME: 55032_5.SchDoc				
DRAWN: M. Sreekumar	DATE: 2/25/2025	SCALE: 1:1	SHEET 5 OF 7	

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OPTIONAL: +INV Discharge Circuit, reduces delay needed for monotonic restart





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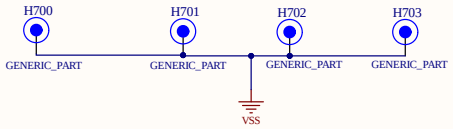
SCHEMATIC
DCM3735 1-up Eval Board

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FILENAME: 55032_6.SchDoc				
DRAWN: M. Sreekumar	DATE: 2/25/2025	SCALE: 1:1	SHEET 6 OF 7	

SCHEMATIC: DCM3735 1-up Eval Board

REV	DESCRIPTION	DATE	APPROVED
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Mechanical



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VICOR

SCHEMATIC
DCM3735 1-up Eval Board

ASSEMBLY VARIANT [No Variations]	SIZE B	FSCM NO. 67131	DWG NO. 55032-SCH / REV 01
FILENAME: 55032_7.SchDoc			
DRAWN: M. Sreekumar / DATE: 2/25/2025	SCALE: 1:1	SHEET 7 OF 7	