

A
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

Module

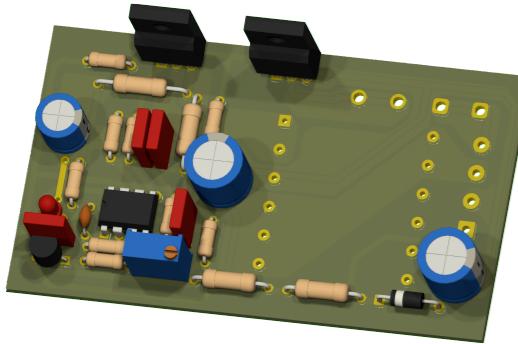
Rev + (Unreleased)

Variant: PRELIMINARY

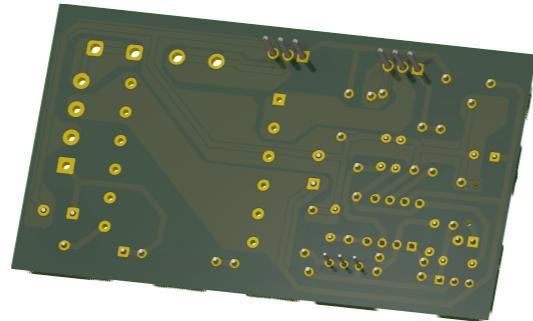
2025-12-14

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TOP VIEW



BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as

DRAFT - Early concept stage, schematic drafted.

PRELIMINARY - Minor schematic changes are expected, ready for layout planning.

CHECKED - DRC completed, schematic and layout ready for review.

RELEASED - Design ready for manufacturing.

Date: 14-Dec-2025

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational design notes.

DESIGN NOTE:
Example text for debug notes.

DESIGN NOTE:
Example text for cautionary design notes.

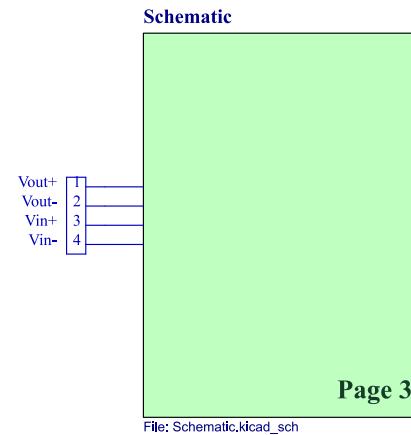
DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments:	Company: FR	Variant: PRELIMINARY	Git Hash: 95cd2d0
	Board Name: Module	Project Name: Step-up module 12:450 V		
	Sheet Title: File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /	Reviewer: NA	Size: A3	Sheet: 1 of 4

[2] Block Diagram

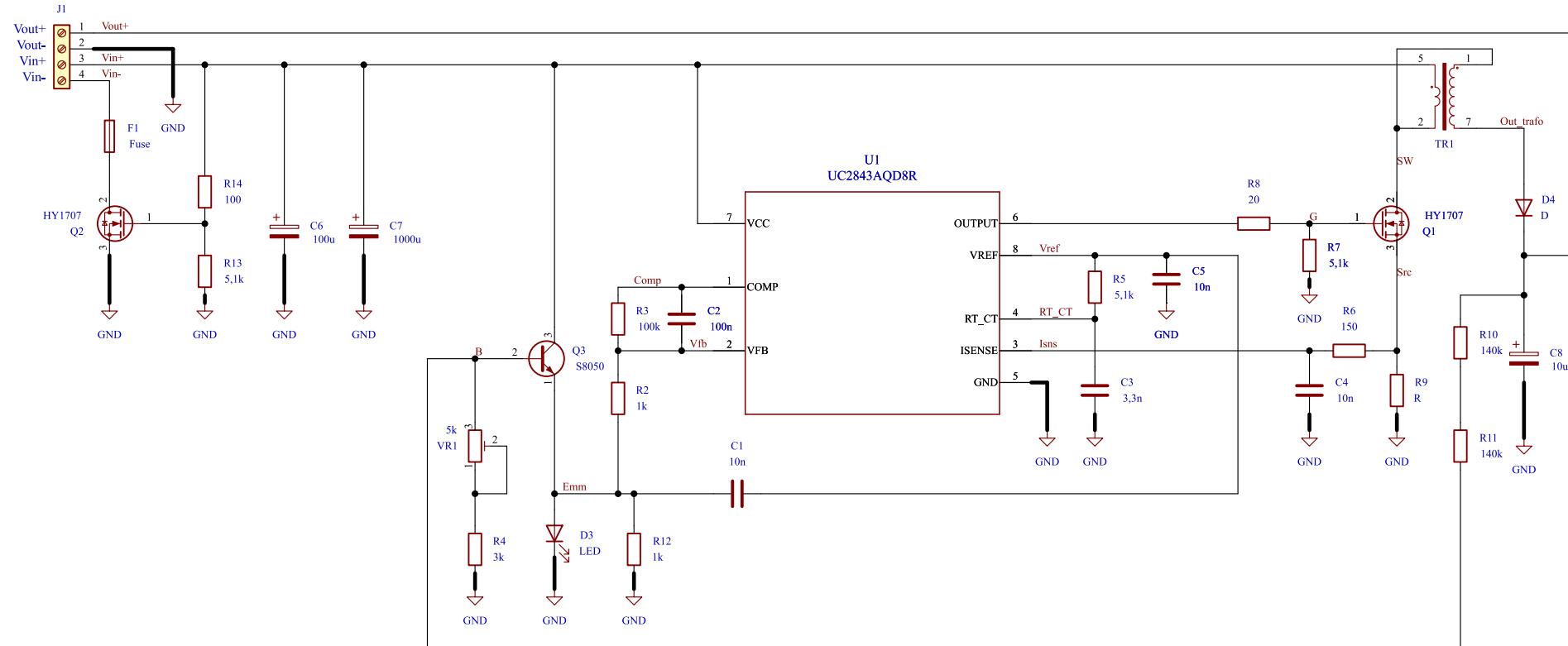
MODULE INTERFACE:
Vin: 9 V to 2 V according to
AliExpress product page
Vout: 200 V to 450 V,
adjustable through VR1



Page 3

	Comments: AliExpress module	Company: FR	Variant: PRELIMINARY	Git Hash: 95cd2d0
	Board Name: Module			Project Name: Step-up module 12:450 V
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: FR	Date: 2025-01-12 Revision: + (Unreleased)
	Sheet Path: /Block Diagram/		Reviewer: NA	Size: A4 Sheet: 2 of 4

[3] Schematic



		Comments: AliExpress module	Company: FR	Variant: PRELIMINARY	Git Hash: 95cd2d0
		Board Name: Module		Project Name: Step-up module 12:450 V	
		Sheet Title: Schematic	File Name: Schematic.kicad_sch	Designer: FR	Date: 2025-01-12
		Sheet Path: /Block Diagram/Schematic/		Reviewer: NA	Revision: + (Unreleased)

[4] Revision History

	Comments: "Comment 1" "Comment 2" "Comment 3" "Comment 4"	Company: FR	Variant: PRELIMINARY	Git Hash: 95ed2d0
		Board Name: Module	Project Name: Step-up module 12:450 V	
	Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: FR	Date: 2025-01-12 + (Unreleased)
	Sheet Path: /Revision History/	Reviewer: NA	Size: A4	Sheet: 4 of 4