View from Front side (Scale 1:1)

View from Top side (Scale 1:1)

View from Back side (Scale 1:1)

EPS 2.0 Hardware:

- Drawn by: André M. P. Mattos (updates from FloripaSat-I EPS)
- Based on FloripaSat-I OBDH designed by: Sara V. Martinez
- Reviewers: Kleber Gouveia and Yan C. Azeredo
- Support: Gabriel M. Marcelino

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Github repository: https://github.com/spacelab-ufsc/eps2

More info about SpaceLab: https://spacelab.ufsc.br/

SpaceLab - Federal University of Santa Catarina			SPACELAB
Project: Electrical and Power System 2.0			
Title: Project info and board isometric views			
Designed by: André M. P. Mattos			Project code: EPS2
Date: 23/10/2022	Version: v0.1	Sheet 1 of 3	Sheet size: A4

Displayed components within a red mesh box
are not supposed to be soldered in the flight model of the board.

View from Top side (Scale 1.8:1)

View from Bottom side (Scale 1.8:1)

View from Front side (Scale 2:1)

Hardware versioning resistors

DETAIL A (Scale 2:1)

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Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
Prepreg		*0.11mm*		*Dielectric*	
Copper	Signal Layer 1	0.04mm		Signal	G1
Core		*1.20mm*	*FR-4*	*Dielectric*	
Copper	Signal Layer 2	0.04mm		Signal	G2
Prepreg		*0.11mm*		*Dielectric*	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.58mm

Drill Drawing View (Scale 1:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
	253	0.30mm	Plated	
	9	0.38mm	Plated	
	1	0.60mm	Plated	
	77	0.71mm	Plated	
	104	0.90mm	Plated	
	5	0.99mm	Plated	
	44	1.00mm	Plated	
	9	3.20mm	Plated	
	502 Total			

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Project: Electrical and Power System 2.0			
Title: Layer stack and drill tables			
Designed by: André M. P. Mattos			Project code: EPS2
Date: 23/10/2022	Version: v0.1	Sheet 3 of 3	Sheet size: A4