

M1

Interstage Interface Panel
Board N.3 Rev 2.0

FD1

TP2

TP8

TP6 TP5

FB2

FB1

C5
0805
C4
0603
C2
S080
C1
S090

TP3
TP1

CN2



SpaceLab UFSC 2021

M2

FD2

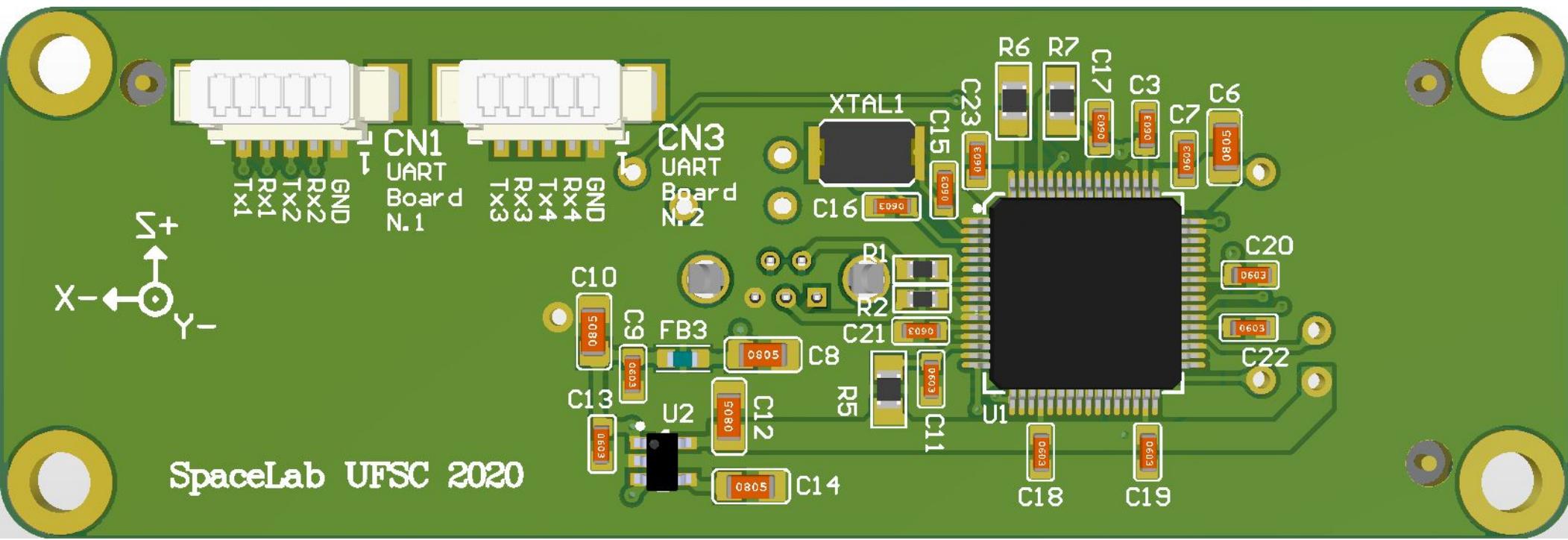
+Z
+Y
-X

M4

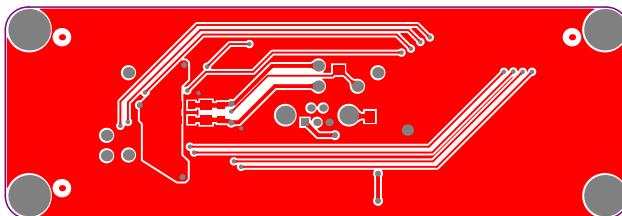
M3

FD3 line limit
external connectors

structure contact area



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

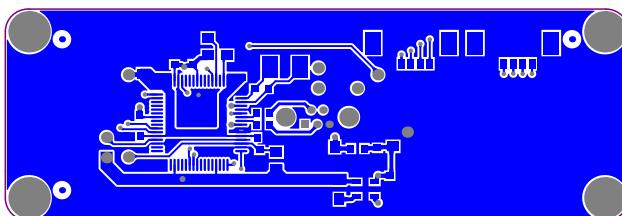
- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Top Layer Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Bottom Layer Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

A

A

B

B

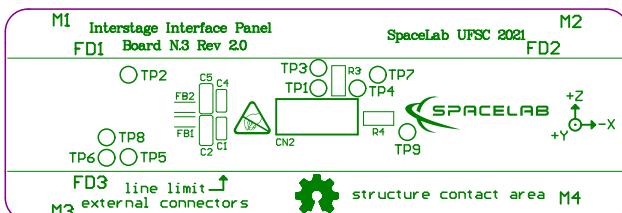
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Top Overlay Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

A

A

B

B

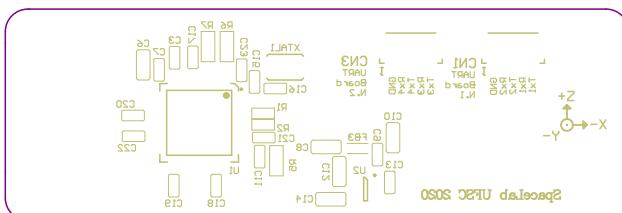
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Bottom Overlay Board edge	
Designed by: Yan C. de Azeredo	
Date: 7/1/2021	Project Code: IIP3
Version: v2.0	Size: A4

A

A

B

B

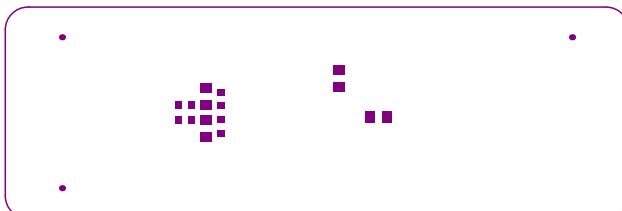
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel Nº3	
Layer: Top Paste Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

A

A

B

B

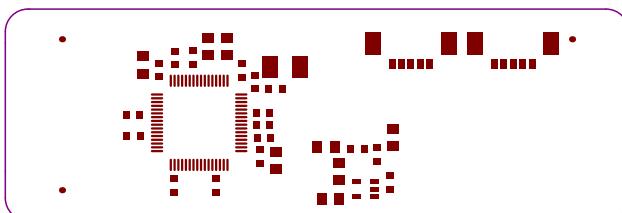
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

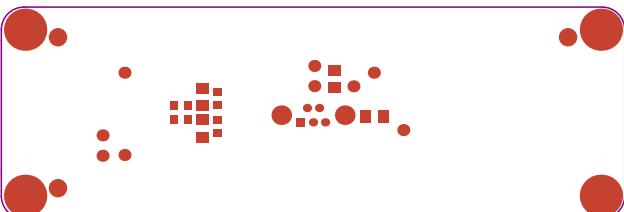
- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel Nº3	
Layer: Bottom Paste Board edge	
Designed by: Yan C. de Azeredo	
Date: 7/1/2021	Project Code: IIP3
Version: v2.0	Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

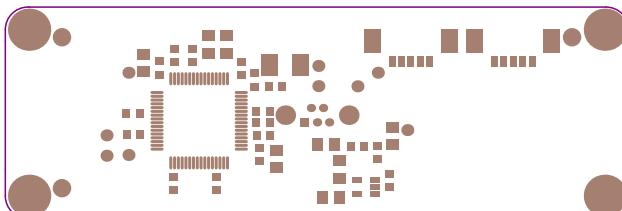
- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Top Solder Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel N°3	
Layer: Bottom Solder Board edge	
Designed by: Yan C. de Azeredo	Project Code: IIP3
Date: 7/1/2021	Version: v2.0
	Size: A4

A

A

B

B

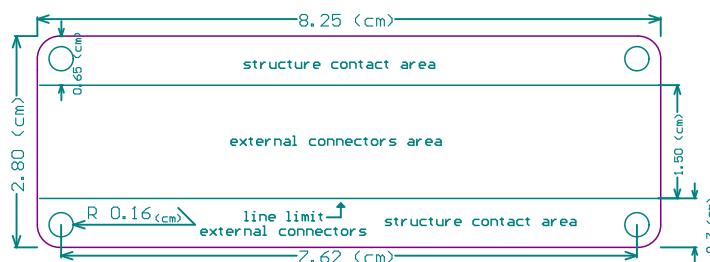
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina



Project: Interstage Interface Panel N°3

Layer: Dimensions Board edge

Designed by: Yan C. de Azeredo

Project Code: IIP3

Date: 7/1/2021

Version: v2.0

Size: A4

A

A

B

B

C

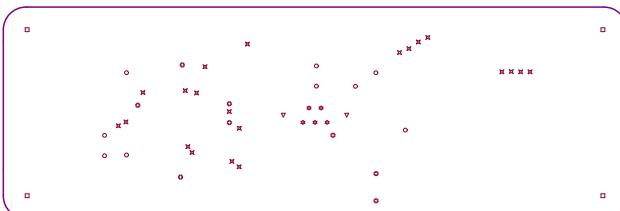
C

D

D

Symbol	Count	Hole Size	Plated	Hole Type	Drill Layer Pair	Via/Pad	Pad Shape	Template
☒	21	0.300mm (11.81mil)	PTH	Round	Top Layer - Bottom Layer	Via	Rounded	(Mixed)
⊕	8	0.400mm (15.75mil)	PTH	Round	Top Layer - Bottom Layer	Via	Rounded	v80h40m0mx0
⊗	5	0.600mm (23.62mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)	(Mixed)
○	9	0.900mm (35.43mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c150h90
▽	2	2.000mm (78.74mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c250h200
□	4	3.200mm (125.98mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	c550h320
49 Total								

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina



Project: Interstage Interface Panel Nº3

Layer: Drill Drawing Board edge

Project Code: IIP3

Designed by: Yan C. de Azeredo

Date: 7/1/2021 Version: v2.0

Size: A4

A

A

B

B

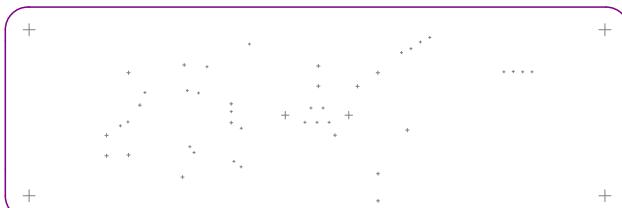
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.8	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	59.06mil	4.5	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.8	
7	Bottom Overlay				



Fabrication specifications:

- Copper base: 1oz
- PCB Material: Prepeg FR4—Standard
- PCB Thickness: 1.6mm
- PCB Surface: HASL (with lead)
- Silkscreen Color: White (top and bottom)
- Soldermask Color: Green
- Vias: Force Complete Tenting
- Stack-up: Table herein included
- Special requirements: None

Assembly specifications:

- Solder composition: Include lead
- Fiducials: 3 top and 3 bottom available

SpaceLab - Federal University of Santa Catarina	
Project: Interstage Interface Panel Nº3	
Layer: Drill Guide Board edge	
Designed by: Yan C. de Azeredo	
Date: 7/1/2021	Project Code: IIP3
Version: v2.0	Size: A4