



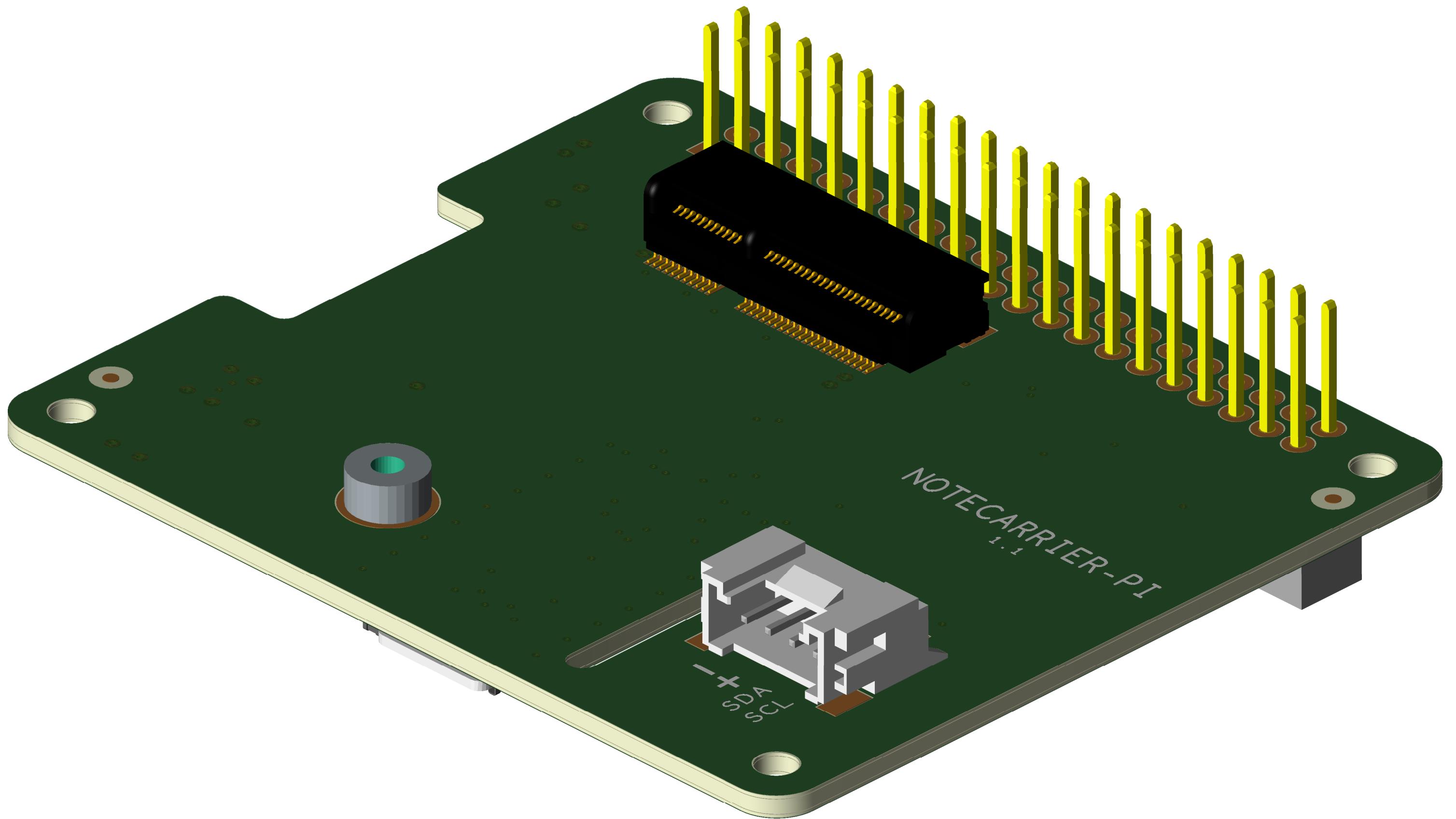
PCB DOCUMENTATION

CUSTOMER: BLUES

PROJECT: NOTECARRIER-M2-PI_V4

FAE CODE: 2017-3047

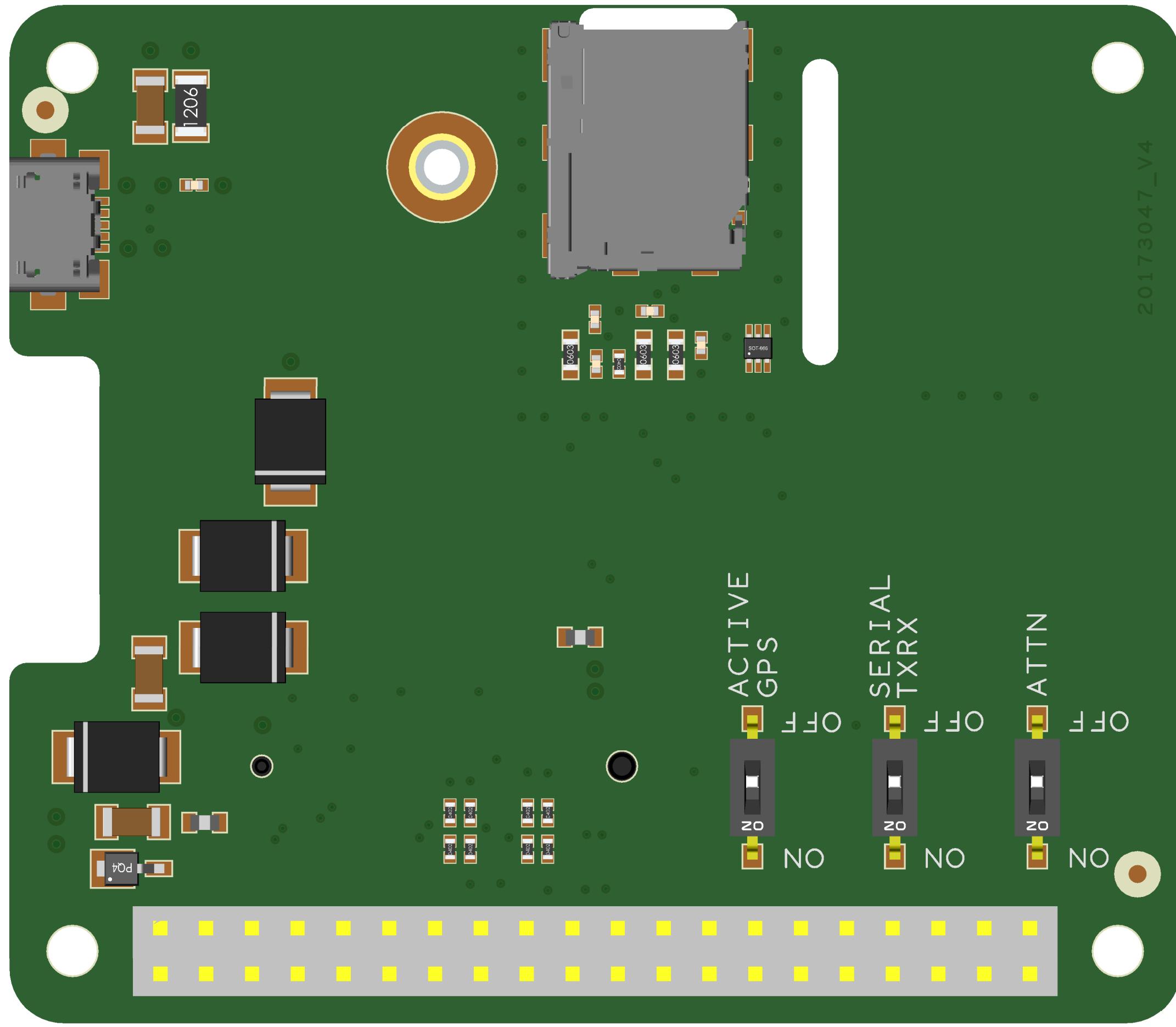
DATE: 23/09/2020

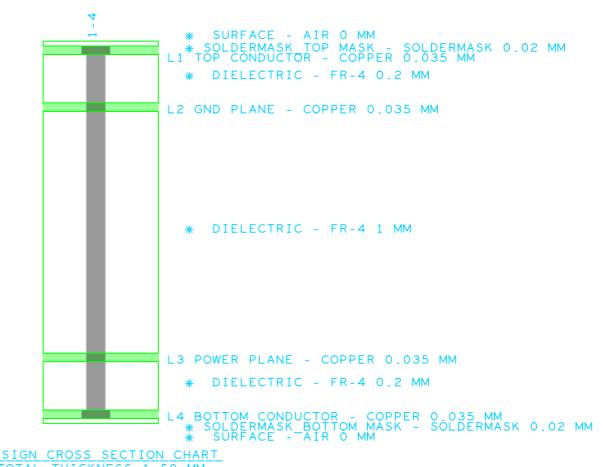
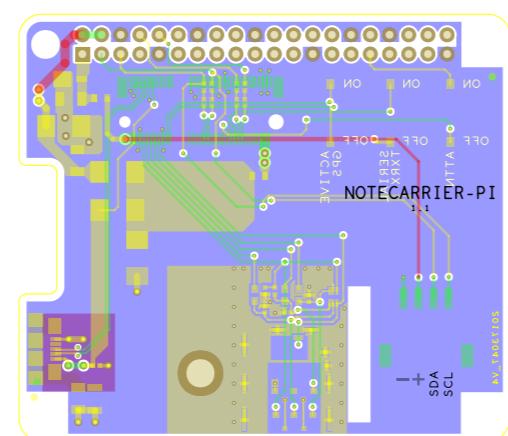


NOTE CARRIER-PI
1.1

- +
SDA SCL







TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

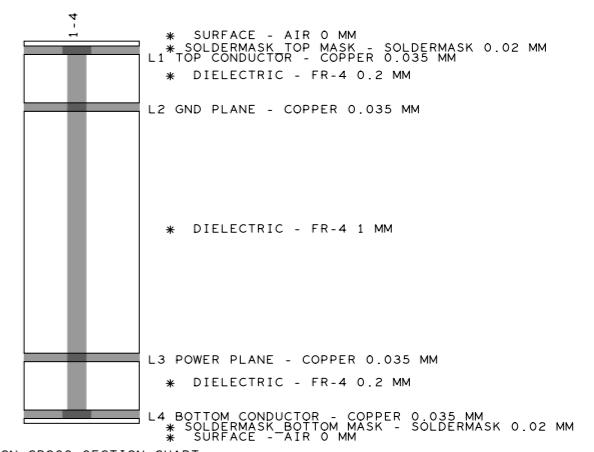
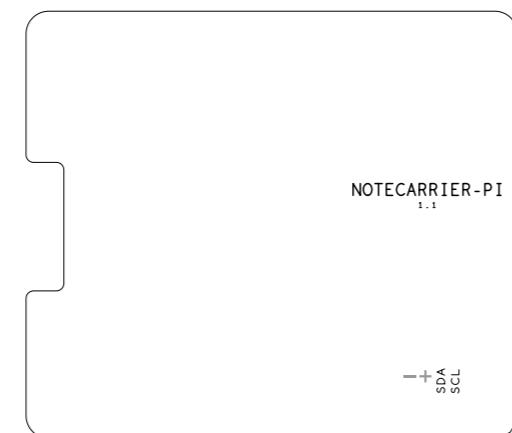
LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Project name	NOTEBOX	Board name
		NOTE CARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code	2017-3047	
Internal Code -		Code -
Rev.	Size Page	Scale
4	A3	1:1
		Data 23/09/2020

Blues Inc



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

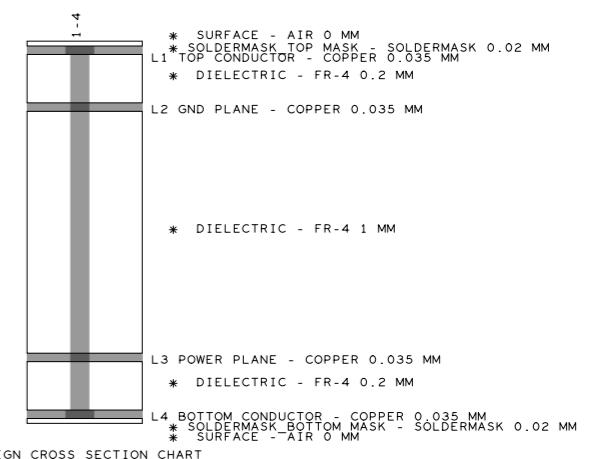
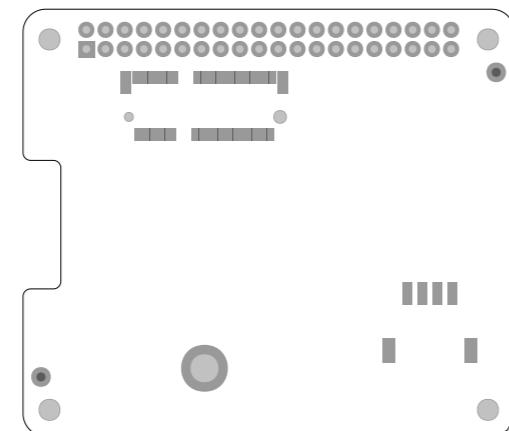
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name		
	NOTEBOX		NOTE CARRIER-M2-PI		
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy					
Project Code 2017-3047					
Internal Code -		Code -			
Rev. 4	Size Page A3	Scale 1:1	Date 23/09/2020		



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

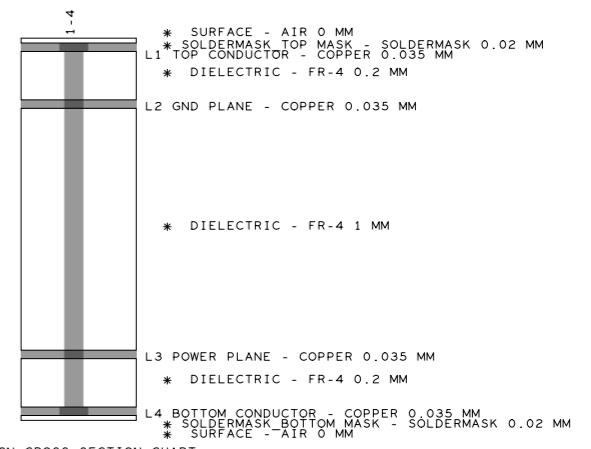
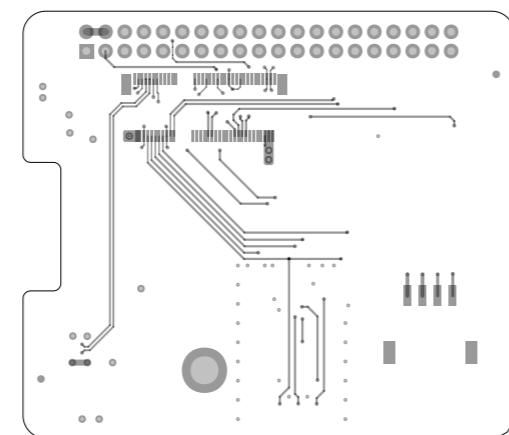
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name		
	NOTEBOOK		NOTECARRIER-M2-PI		
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy					
Project Code 2017-3047					
Internal Code -			Code -		
Rev.	Size Page	Scale	Date		
4	A3	1:1	23/09/2020		
Copyright (c) 2020 Blues Inc					



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

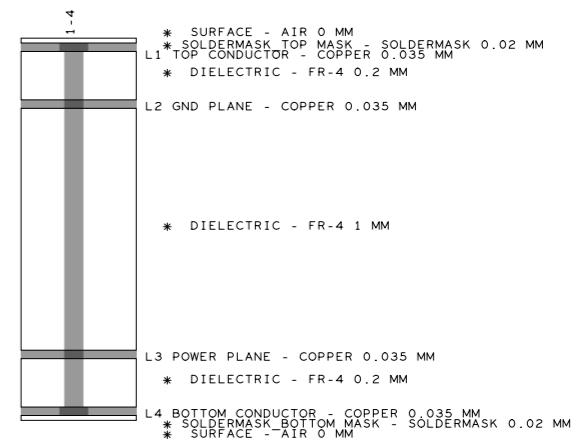
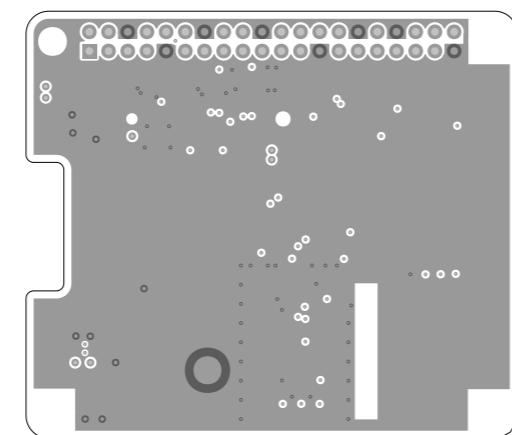
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name		
	NOTEBOOK		NOTECARRIER-M2-PI		
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy					
Project Code 2017-3047					
Internal Code -					
Rev.	Size Page	Scale	Date		
4	A3	1:1	23/09/2020		



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

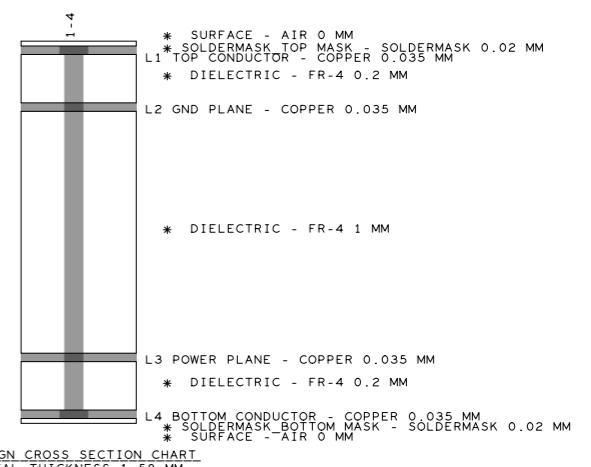
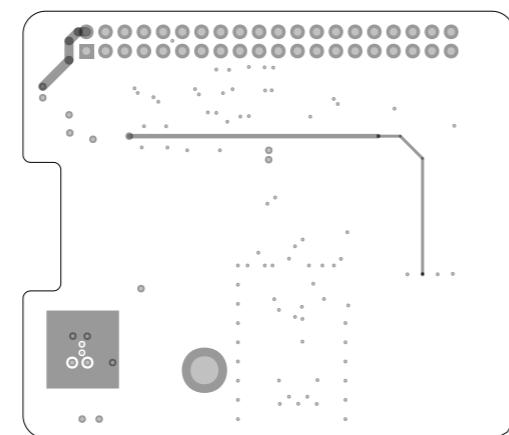
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO. OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name		
	NOTEBOOK		NOTECARRIER-M2-PI		
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy					
Project Code 2017-3047					
Internal Code -			Code -		
Rev.	Size Page	Scale	Date		
4	A3	1:1	23/09/2020		
Copyright (c) 2020 Blues Inc					



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

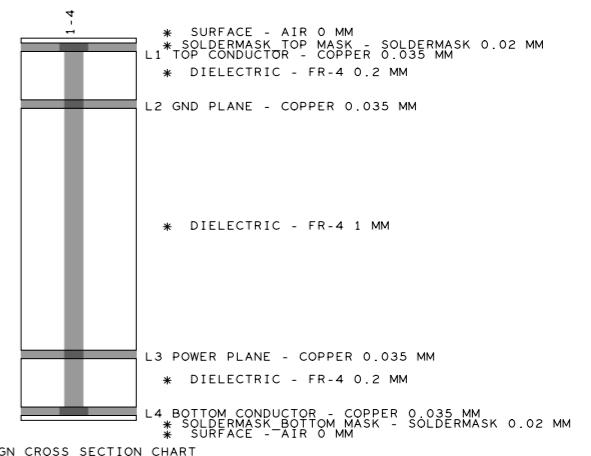
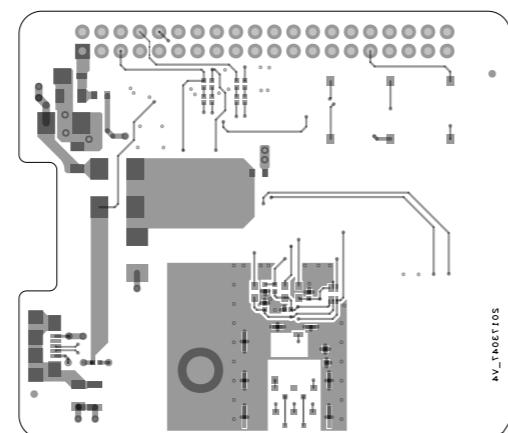
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc Copyright (c) 2020 Blues Inc	Project name		Board name
	NOTEBOOK		NOTECARRIER-M2-PI
Designed by	FAE Technology SpA - Gazzaniga (BG) - Italy		
Project Code	2017-3047		
Internal Code	-		Code
Rev.	Size Page	Scale	Date
4	A3	1:1	23/09/2020



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

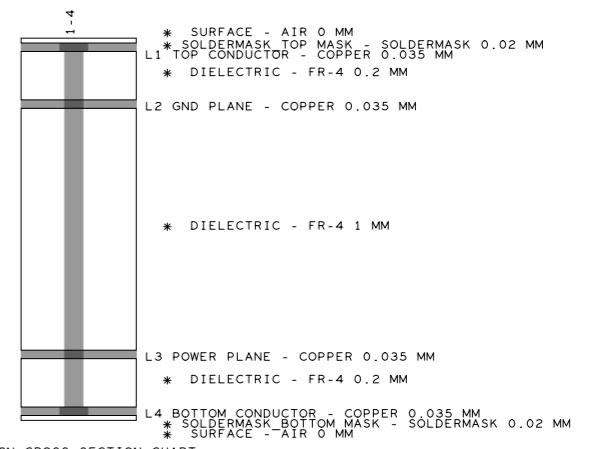
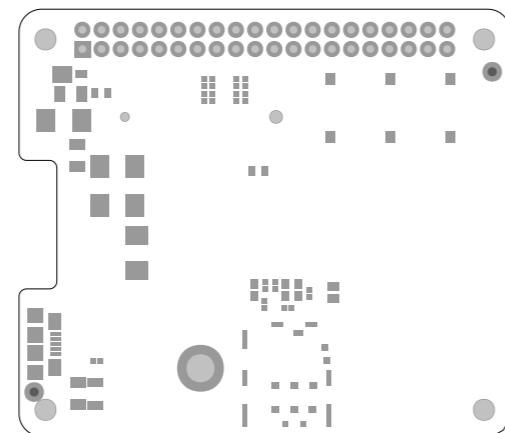
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc Copyright (c) 2020 Blues Inc	Project name		Board name
	NOTEBOOK		NOTE CARRIER-M2-PI
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy		
	Project Code 2017-3047		
	Internal Code -		Code -
	Rev. 4	Size Page A3	Scale 1:1
		Data 23/09/2020	



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

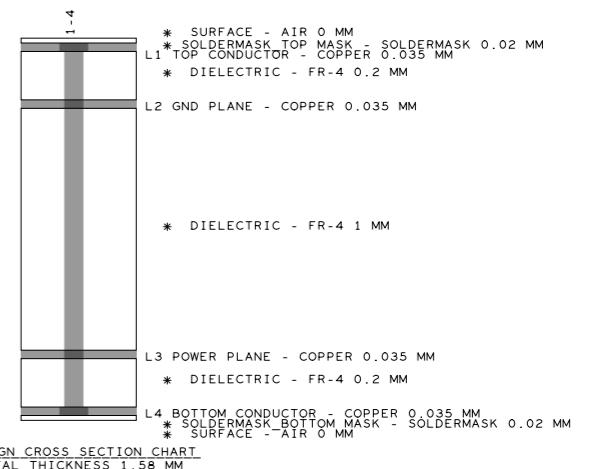
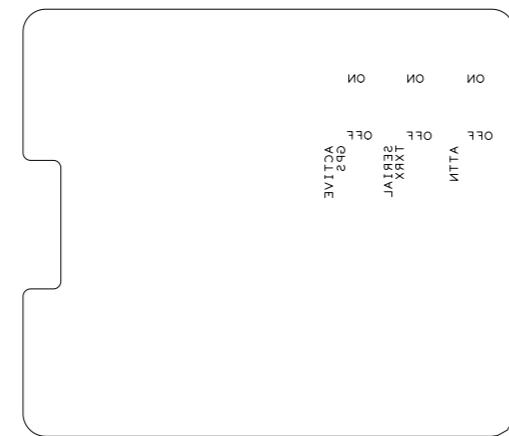
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.O LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name					
	NOTEBOOK		NOTE CARRIER-M2-PI					
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy								
Project Code 2017-3047								
Internal Code -			Code -					
Rev.	Size Page	Scale	Data 23/09/2020					
4	A3	1:1						
Copyright (c) 2020 Blues Inc								



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

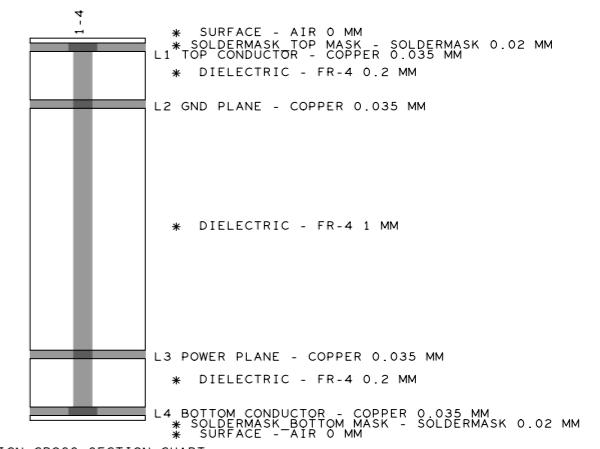
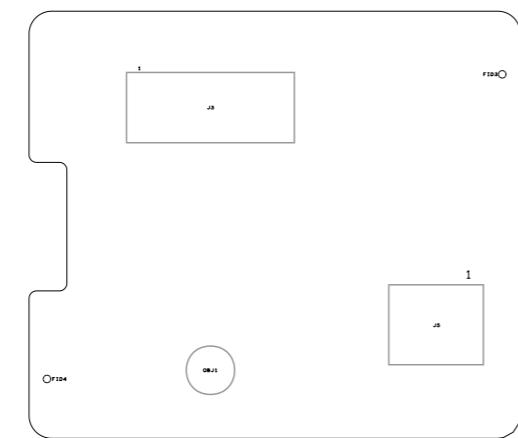
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

	Project name		Board name
	NOTEBOX		NOTECARRIER-M2-PI
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy		
	Project Code 2017-3047		
	Internal Code -		Code -
	Rev. 4	Size Page A3	Scale 1:1
Copyright (c) 2020 Blues Inc			Date 23/09/2020



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

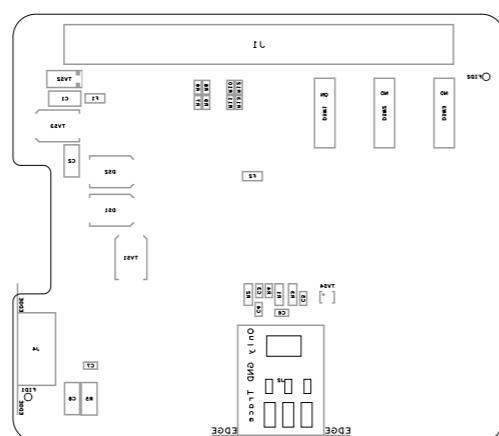
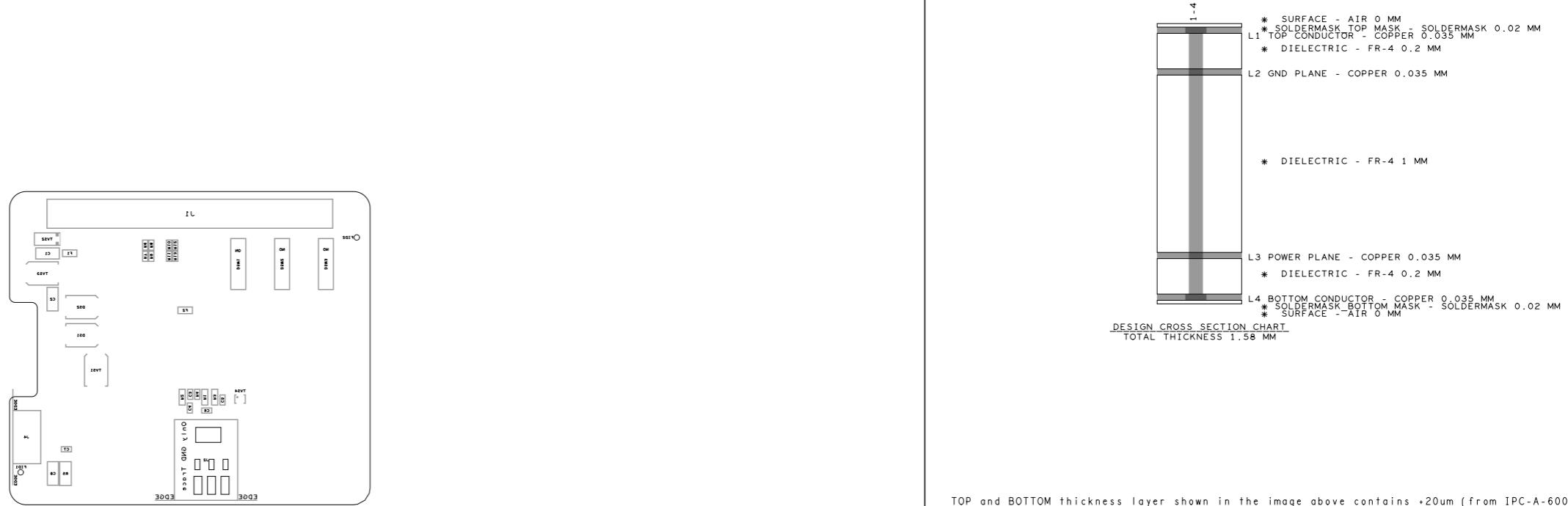
IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Blues Inc	Project name		Board name		
	NOTEBOOK		NOTECARRIER-M2-PI		
Designed by FAE Technology SpA - Gazzaniga (BG) - Italy					
Project Code 2017-3047					
Internal Code -			Code -		
Rev.	Size Page	Scale	Date		
4	A3	1:1	23/09/2020		
Copyright (c) 2020 Blues Inc					



TOP and BOTTOM thickness layer shown in the image above contains +20um (from IPC-A-600 Class 2) of plating

IMPEDANCE CONTROL TABLE

LAYER	TRACE [MM]	SPACING [MM]	IMPEDANCE SINGLE-ENDED	IMPEDANCE DIFFERENTIAL	TOLLERANCE
TOP/BOTTOM	0.26	0.2	NA	90 ohm	+/- 10%

MANUFACTURING SPECIFICATIONS

BOARD SIZE (XxYxZ)	65x56.5x1.6mm	IPC-6012 - IPC-A-600	CLASS 2
BOARD TOLLERANCE (X Y Z)	+/-0.2 +/-0.2 +/-10%	E-TESTING	YES
NO.OF LAYERS	4	UL-MARKING	YES
BASE COPPER OUTSIDE	18um	MICROVIA (hole < 100um)	NO
BASE COPPER INSIDE	35um	BLIND VIA	NO
FINISH	ENIG	BURIED VIA	NO
SOLDER COLOR	GREEN	VIA FILL/VIA IN PAD	NO
SILKSCREEN COLOR	WHITE	MIN. VIA SIZE	0.254mm
DIELECTRIC MATERIAL	FR4-TG150	MIN. TRACE SPACING	0.2mm
IMPEDANCE CONTROL	YES	OUTER LAYER MIN. TRACE WIDTH	0.2mm
CTI	175V	INNER LAYER MIN. TRACE WIDTH	0.2mm

Project name NOTEBOOK	Board name NOTE CARRIER-M2-PI	
	Designed by FAE Technology SpA - Gazzaniga (BG) - Italy	
Project Code	2017-3047	
Internal Code	-	Code -
Rev.	Size Page	Scale
4	A3	1:1
		Data 23/09/2020

Blues Inc

