

8 7 6 5 4 3 2 1

NOTES: UNLESS OTHERWISE SPECIFIED.

1. FABRICATE PER IPC-6012A CLASS 2.
2. MATERIAL:
  - DIELECTRIC: ISOLA 185HR
  - COPPER THICKNESS: AS PER STACKUP
  - U.L. RATING: 94V-0 MINIMUM
3. SURFACE FINISH: ENIG
4. SOLDER MASK MATERIAL SHALL MEET ALL THE REQUIREMENTS OF IPC-SM-840C AND SHALL BE WHITE INK WITH MATT FINISH SHOULD USE FOR THE SOLDER MASK OVER PCB. PCB VENDOR MUST CONFIRM THE EXACT COLOR CODE OF THE PCB BEFORE FABRICATION.
5. SILK SCREEN LEGEND TO BE APPLIED PER LAYER STACKUP USING BLACK NON-CONDUCTIVE EPOXY INK.
6. 100% CONTINUITY TESTING USING DATABASE NETLIST SHALL BE PERFORMED. VENDOR TO IDENTIFY TEST PASSED IN SECONDARY SIDE.
7. VENDOR TO MARK DATE CODE AND LOGO IN ETCH OR IN LEGEND.
8. BOW AND TWIST SHALL NOT EXCEED 0.7% OF LONGEST SIDE.
9. DIELECTRICS AND LINewidthS MAY BE ADJUSTED TO MEET THE IMPEDANCE REQUIREMENTS.
10. MINIMUM CONDUCTOR WIDTH: 4.2 MILS  
MINIMUM SPACING: 5 MILS
11. FOR PANELIZATION PLEASE CONTACT eInfochips.
12. ADD 5MM HANDLING AREA AT THE LONGER SIDE OF THE DELIVERABLE PANEL WITH MINIMUM 3 FIDUCIALS.

SINGLE ENDED IMPEDANCE

LAYER NO.	CONDUCTOR WIDTH	REFERENCE LAYER	IMPEDANCE +/-10%
1	6.50 MIL	2	50 OHMS +/-10%
4	6.50 MIL	3	50 OHMS +/-10%

90 OHMS IMPEDANCE

LAYER NO.	CONDUCTOR WIDTH	CONDUCTOR SPACING	REFERENCE LAYER	IMPEDANCE +/-10%
1	5.10 MIL	5.0 MIL	2	90 OHMS +/-10%
4	5.10 MIL	5.0 MIL	3	90 OHMS +/-10%

100 OHMS IMPEDANCE

LAYER NO.	CONDUCTOR WIDTH	CONDUCTOR SPACING	REFERENCE LAYER	IMPEDANCE +/-10%
1	4.2 MIL	5.8 MIL	2	100 OHMS +/-10%
4	4.2 MIL	5.8 MIL	3	100 OHMS +/-10%

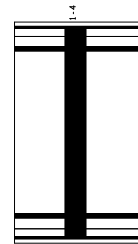


DATE: 08 DECEMBER 2021 PCB NO: 17 00919\_03  
DESIGNED: ALTTEL-NetA\_Converter  
CARD REF: eInfochips  
FILM LAYER: FABRICATION LAYER



SENSITIVE ELECTRONIC DEVICES-CLASS 1

REV	DESCRIPTION	DATE	APPROVED
1.0	GERBER RELEASE FOR FABRICATION	07/07/2021	
2.0	RELEASE FOR FABRICATION	07/16/2021	
3.0	RELEASE FOR PILOT PRODUCTION	08/10/2021	



DESIGN CROSS SECTION CHART  
STACKUP THICKNESS 61.19 MIL  
STACKUP THICKNESS WITH SOLDERMASK 63.59 MIL

- \* SURFACE - AIR 0 MIL
- \* DIELECTRIC - ELECTRA-EMP110 GLOSSY 1.2 MIL
- L1 TOP CONDUCTOR - COPPER 1.8 MIL
- \* DIELECTRIC - ISOLA 185HR 1.476 MIL
- L2 L2\_2ND CONDUCTOR - COPPER 1.299 MIL
- \* DIELECTRIC - ISOLA 185HR 47 MIL
- L3 L3\_PWR CONDUCTOR - COPPER 1.299 MIL
- \* DIELECTRIC - ISOLA 185HR 1.476 MIL
- L4 BOTTOM CONDUCTOR - COPPER 1.8 MIL
- \* DIELECTRIC - ELECTRA-EMP110 GLOSSY 1.2 MIL
- \* SURFACE - AIR 0 MIL

DRILL CHART: TOP to BOTTOM						
ALL UNITS ARE IN MILS						
FIGURE	FINISHED SIZE	TOLERANCE	DRILL	TOLERANCE	TRAVEL	PLATED QTY
●	6.0	+3.0/-3.0	-	-	PLATED	321
●	31.5	+3.0/-3.0	-	-	PLATED	2
●	35.04	+3.0/-3.0	-	-	PLATED	8
●	35.43	+3.0/-3.0	-	-	PLATED	4
●	40.16	+3.0/-3.0	-	-	PLATED	4
●	43.31	+3.0/-3.0	-	-	PLATED	6
●	64.17	+3.0/-3.0	-	-	PLATED	2
●	181.0	+3.0/-3.0	-	-	PLATED	3
●	25.59	+2.0/-2.0	-	-	NON-PLATED	2
●	39.0	+2.0/-2.0	-	-	NON-PLATED	3
●	93.5	+2.0/-2.0	-	-	NON-PLATED	4
●	127.95	+2.0/-2.0	-	-	NON-PLATED	2
●	55.12x23.62	+3.0/-3.0	+2.99/-2.99	-	PLATED	2
●	66.93x23.62	+3.0/-3.0	+2.99/-2.99	-	PLATED	2
TOTAL HOLES: 365						

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN <input type="checkbox"/> INCHES <input checked="" type="checkbox"/> MILLIMETERS		eInfochips	
DRAWING TITLE			
FABRICATION DRAWING			
DATE	SIZE	PART NUMBER	REV
08 DECEMBER 2021	D	eInfochips_MatA_Converter	1.0
SCALE 1/1		SHEET 1 OF 1	

CAD DATA 2 DO NOT MANUALLY UPDATE 1