

| REVISIONS | | | |
|-----------|--------------------------------|------------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| 1.0 | GERBER RELEASE FOR FABRICATION | 02/07/2021 | |
| 2.0 | RELEASE FOR FABRICATION | 01/10/2021 | |
| 3.0 | RELEASE FOR PILOT PRODUCTION | 08/12/2021 | |

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% |

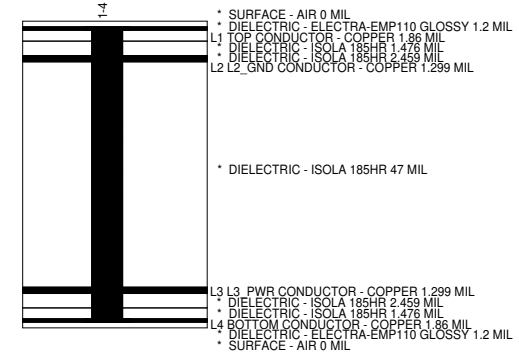


CAUTION

SENSITIVE ELECTRONIC DEVICES-CLASS 1



| | |
|-----------------------------------|---------------------|
| einfochips | |
| DATE: 08 DECEMBER 2021 | PCB NO: 17_00970_03 |
| DESIGNED AT: einfochips | |
| CARD REF: el_AT11_Media_Converter | REV:3.0 |
| FILM LAYER: FABRICATION LAYER | |



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

DRILL CHART: TOP to BOTTOM

| ALL UNITS ARE IN MILS | | | | | |
|-----------------------|---------------|-----------|-------------|------------|--------|
| FIGURE | FINISHED SIZE | TOLERANCE | DRILL | TOLERANCE | TRAVEL |
| • | 8.0 | +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 | | einfochips | |
| <input type="checkbox"/> INCHES | <input checked="" type="checkbox"/> MILLIMETERS | DRAWING TITLE | |
| | | FABRICATION DRAWING | |
| DATE 08 DECEMBER 2021 | SCALE 1/1 | SHEET 1 OF 1 | REV 3.0 |

CAD DATA 2 DO NOT MANUALLY UPDATE

DISCLAIMER: THIS CIRCUIT DESIGN IS A PROVIDED AS REFERENCE ONLY, WITHOUT WARRANTY EXPRESSED OR IMPLIED. THE USER IS ENCOURAGED TO PERFORM ALL DUE DILIGENCE WITH RESPECT TO DESIGN AND ANALYSIS. FOR COMMITTED PERFORMANCE AND FUNCTIONALITY OF THE DEVICE, PLEASE REFER TO THE DEVICE DATA MANUAL.