

NOTES: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN METRIC

1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.

~~GERBER FILES CONTAIN BOARD OUTLINE FOR ALIGNMENT PURPOSES.
REMOVE BOARD TO PRODUCTION~~

3. FABRICATE PCB PER IPC-6012, LATEST REVISION, TYPE 3, CLASS 2.

THE DETAILED NOTES AND INSTRUCTIONS ON THIS DRAWING SUPERCEDE IPC REQUIREMENTS.
BARE BOARD ACCEPTANCE PER IPC-A-600, LATEST REVISION.
EXPOSED COPPER ALONG BOARD EDGE IS ACCEPTABLE, POST PANEL ROUTING PROCESS.

4. TRACE WIDTH/SPACE/VIA:

TRACE WIDTHS/SPACING TO BE WITHIN $\pm 20\%$ OF GERBER DATA.
MINIMUM TRACE WIDTH: OUTER LAYERS= $0.0852\text{mm} \pm 10\%$.

INNER LAYERS= NA

MINIMUM AIR GAP: OUTER LAYERS= 0.076

INNER LAYERS= NA

MINIMUM VIA PAD DIAMETER: 0.10mm

5. MATERIAL:

NUMBER OF ELECTRICAL LAYERS IS 4.

MATERIALS AND OVERALL THICKNESS SEE STACKUP DETAIL.

LOAD BOARD AND PREPREG PER IPC-4101. COPPER FOIL PER IPC-MF-150.

MATERIAL'S GLASS TRANSITION TEMPERATURE (T_g) SHALL BE A MINIMUM OF 170° CENTIGRADE.

MATERIAL MUST MEET UL796 WITH A FLAMMABILITY RATING OF 94V-0

VENDOR UL LOGO AND DATE CODE TO BE SCREENED ON THE BOTTOM SIDE. IF NO BOTTOM

SILKSCREEN PROVIDED VENDOR MAY ADD BOTTOM SILKSCREEN.

6. TOLERANCES:

6A. LAYER TO LAYER REGISTRATION WITHIN $.076\text{mm}$.6B. ALL HOLES TO BE LOCATED WITHIN $.076\text{mm}$ OF ORIGINAL CAD DATA.6C. ALL HOLES SURROUNDED BY COPPER SHALL HAVE A MINIMUM ANNULAR RING OF $.076\text{mm}$.6D. ALL PLATED THROUGH HOLES TO HAVE A MINIMUM $.015\text{mm}$ OF PLATING.

6E. HOLE DIMENSIONS AND TOLERANCES APPLY AFTER PLATING, SEE DRILL HOLE CHART.

6F. WARP AND TWIST NOT TO EXCEED $.254\text{ MM/MM}$.

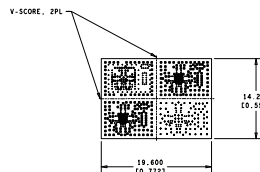
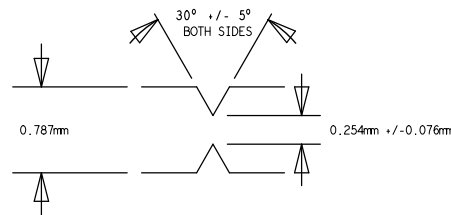
7. PLATING OPTIONS: USE 7A

7A. 1Ag - IMMERSION SILVER 6-20 MICROINCHES MINIMUM PER IPC-4553.

~~7B. 100% OVER ENVELOPE PLATING OVER THE ENTIRE BOARD PER IPC-4553~~~~7C. SELECTIVE HARD GOLD FINISH IN THE PAD AND BOARD MOUNTING AREAS TO 100 MICROINCHES~~~~7D. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7E. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7F. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7G. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7H. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7I. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7J. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7K. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7L. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7M. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7N. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7O. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7P. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7Q. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7R. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7S. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7T. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7U. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7V. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7W. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7X. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7Y. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7Z. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AA. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AB. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AC. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AD. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AE. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AF. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AG. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AH. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AI. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AJ. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AK. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AL. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AM. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AN. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AO. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AP. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AQ. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AR. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AS. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AT. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AU. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AV. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AW. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AX. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AY. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7AZ. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BA. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BB. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BC. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BD. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BE. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BF. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BG. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BH. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BI. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~~~7BJ. 100% THROUGH HOLE IMMERSION SILVER TO 100 MICROINCHES THICKNESS~~

V-SCORE DETAIL

SCALE = NONE



4 LAYER - STACK UP

| | | |
|-----------------------------|-------------|-------------------------|
| PRIMARY SIDE ..SILKSCREEN | | |
| PRIMARY SIDE ..SOLDERMASK | | |
| PRIMARY SIDE ..L1 | ASTRA MT77 | 0.0635 0.05334 FINISHED |
| INNER SIGNAL ..L2 | | 0.01778 |
| | ISOLA 370HR | 0.5182 |
| GND PLANE ..L3 | ISOLA 370HR | 0.0635 0.01778 |
| SECONDARY SIDE ..L4 | | 0.05334 FINISHED |
| SECONDARY SIDE ..SOLDERMASK | | |

TOTAL BOARD THICKNESS: 0.7874 ± 0.127
UNITS: Metric

| TOP to BOTTOM | | | | |
|------------------------------|---------------|--------------------|--------|-----|
| ALL UNITS ARE IN MILLIMETERS | | | | |
| FIG | FINISHED SIZE | TOLERANCE | PLATED | QTY |
| • | 0.1016 | $\pm 0.0/-0.1016$ | PLATED | 68 |
| • | 0.127 | $\pm 0.05/-0.127$ | PLATED | 153 |
| • | 0.1524 | $\pm 0.0/-0.15$ | PLATED | 316 |
| • | 0.25 | $\pm 0.075/-0.075$ | PLATED | 85 |

TOTAL HOLES: 622

(Make Like PRT-80235-01)

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|---|--|--------------|--|------------------------------|--|
| DIMENSIONS IN mm/[Inches] TOLERANCES UNLESS OTHERWISE NOTED X.X +/- .25/[0.1] X.XX +/- .25/[0.01] X.XXX +/- .127/[0.005] X.XXXX +/- .0127/[0.0005] ANGLES +/- 1/2 DEG | | CONTRACT NO. | | COMPANY | |
| APPROVALS | | DATE | | TITLE | |
| DRAWN M. MOREY | | 10/17/2022 | | PCB, | |
| CHECKED R. ALIDIO | | 10/17/2022 | | PE42546 Shaggy Probe Board | |
| ISSUED | | | | SIZE B | |
| DO NOT SCALE DRAWING | | REVISED BY | | RoHS COMPLIANCE RELEASE DATE | |
| | | | | DWG NO. PRT-82567 | |
| | | | | REV 01 | |
| | | | | SCALE: NONE | |
| | | | | SHEET: 1 of 1 | |