

ASSEMBLY TOP FAB TOP

TOP_SILK

FAB BOTTOM ASSEMBLY BOTTOM PANEL

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. GENERAL REQUIREMENT:

A. FABRICATE TO MEET IPC-2221, IPC-6011, AND IPC-6012 (LATEST REVISIONS) CLASS 2, EXCEPT WHERE OTHERWISE SPECIFIED.

B. BOARD SHALL BE ELECTRICALLY TESTED PER CURRENT REVISION OF IPC 6012

AND IPC 9252 CLASS II. COMPLETED ELECTRICAL TEST BOARDS MUST BE MARKED IN PERMANENT NON-CONDUCTIVE INK NEXT TO SUPPLIER UL RECOGNITION MARK.

USE NET TIE REPORT (IF SUPPLIED) FOR IDENTIFYING DELIBERATE SHORTS IN NETLIST.

C. CONFIGURATION OF THE PRINTED CIRCUIT BOARD NOT SPECIFICALLY DIMENSIONED ON THE

DRAWING SHALL BE CONTROLLED BY THE GERBER DATA.

D. PCB FABRICATION PROCESS AND MATERIALS MUST BE COMPLIANT WITH THE HAZARDOUS SUBSTANCES(ROHS) DIRECTIVE AND COMPATIBLE WITH PB FREE ASSEMBLY PROCESS.

2. CONTROLLED IMPEDANCE NETS: 100 OHM DIFFERENTIAL +/- 10% REFERENCED TO GND INTERNAL PLANE ON THE LAYER DIRECTLY ADJACENT.

TRACES HAVE 6.1ML WIDTH AND 8 MIL GAP AND ARE LOCATED ON THE TOP AND BOT LAYERS.

ECAT_RO(P/N)

ECAT_R1(P/N)

ECAT_TO(P/N)

ECAT_T1(P/N) ECATPHYO_T(P/N)

ECATPHYO_R_(P/N)

ECATPHY1_T(P/N)

ECATPHY1_R_(P/N)

3. MATERIAL

A. GLASS EPOXY, NATURAL COLOR, LAMINATED NANYA NP 175 OR EQUIVALENT.

4. SURFACE FINISH:

A. ALL EXTERNAL METAL FINISH NOT COVERED BY SOLDERMASK SHALL BE PLATE 118-250 MICRO-INCHES OF ELECTROLESS NICKEL AND 2 - 8 MICROINCHES OF IMMERSION GOLD (ENIG)

5. THEIVING PATTER SHALL NOT BE ADDED TO PCB UNLESS EXPLICITLY APPROVED.

6. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.15MM (0.005 IN) OF GERBER DATA.

TENT WAS PER GERBER FILES.

8. DRILLING

A. ALL HOLE SYMBOLS MAY NOT BE SHOWN IN THE DRAWING. SEE DRILL CHART FOR DETAILS.

B. DIAMETERS IN THE DRILL TABLE ARE FINISHED HOLE SIZES WITH +/-0.003" TOLERANCE UNLESS OTHERWISE SPECIFIED IN THE DRILL TABLE.

9. MARKING:

A. SOLDERMASK, PHOTO-IMAGED LIQUID POLYMER ON BOTH SIDES OF BOARDS IN ACCORDANCE

B. COMPONENT MARKING: SILKSCREEN BOTH SIDES WITH NON-CONDUCTIVE EPOXY INK. LANDS AND EXPOSED PLATED AREAS TO BE FREE OF INK. SILK COLOR TO BE WHITE

C. IDENTIFICATION: FAB VENDOR LOGO AND PART NUMBER WITH CURRENT REVISION TO BE ETCHED ON THE TOP SIDE.

SILKSCREEN DATE CODE ON SOLDER SIDE NEAR PART NUMBER. SUPPLIER SHALL NOT ADD ANY TEXT OR MARKING IN THE COPPER.

10. NETS INTENTIONALLY SHORTED:

A. AGND — GND AT NT1

11. PLATING SHALL BE ENIG PER IPC-4552 (LATEST REVISION).

12. THE MATERIALS AND PROCESS USED TO FABRICATE THIS PART ARE TO BE CONSISTENT WITH THE DIRECTIVE 2011/65/EU

RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONICS EQUIPMENT (ROHS). THE FINDISHED PART TO BE ACCOMPANIED BY A SIGNED CERTIFICATE OF COMPLIANCE TO THE DIRECTIVE 2011/65/EU.

13. IF ANY REACH SVHCÆS ARE USTIIZED IN THE MATERIALS AND OR PROCESS USED TO FABRICATE THIS PART, THE WEIGHT OF THE SVHC'S MUST BE PROVIDED.

14. BOARD OUTLINE CONTAINED IN GERBER FILE (.GM3)

ASSEMBLY NOTES, UNLESS OTHERWISE SPECIFIED:

- 1. ASSEMBLE PER IPC-A-610, CLASS 2 (LATEST REVISION).
- 2. ASSEMBLE BOARD WITH LEAD FREE SOLDER.
- 3. DO NOT WASH ASSEMBLY. COMPONETS MIC1 AND MIC2 ARE MOISTURE SENSITIVE.

 $\sqrt{4}$ SERIALIZE AT LOCATION SPECIFIED WITH MEDIUM SIZE LABEL AS DEFINED IN DOCUMENT 991-00897-00. MAX LABEL SIZE IS 1 IN X 3 IN.

MANUFACTURER SHALL KEEP TRACEABILITY INFORMATION FOR EVERY ASSEMBLY MANUFACTURED.

TRACEABILITY INFORMATION SHALL INCLUDE PART NUMBERS AND REVISIONS; ANY SERIAL NUMBERS, DATE AND LOT CODES; DATE MANUFACTURED; MANUFACTURING LOCATION; AND PRODUCTION, INSPECTION, TEST, AND REWORK HISTORY. TRACEABILITY INFORMATION SHALL BE RETAINED FOR 5 YEARS.

5. PCBA SHALL MAINTAIN OUTLINE DIMENSIONAL TOLERANCE AFTER DEPANELING.

6. PCBA SHALL BE SHIPPED IN ESD SAFE PACKAGING WITH VISIBLE LABELING ON THE ESD PACKAGING

AND VISIBLE LABELING ON THE SHIPPING BOX PER DOCUMENT 991-00897-00.

7. THE MATERIALS AND PROCESS USED TO FABRICATE THIS PART ARE TO BE CONSISTENT WITH

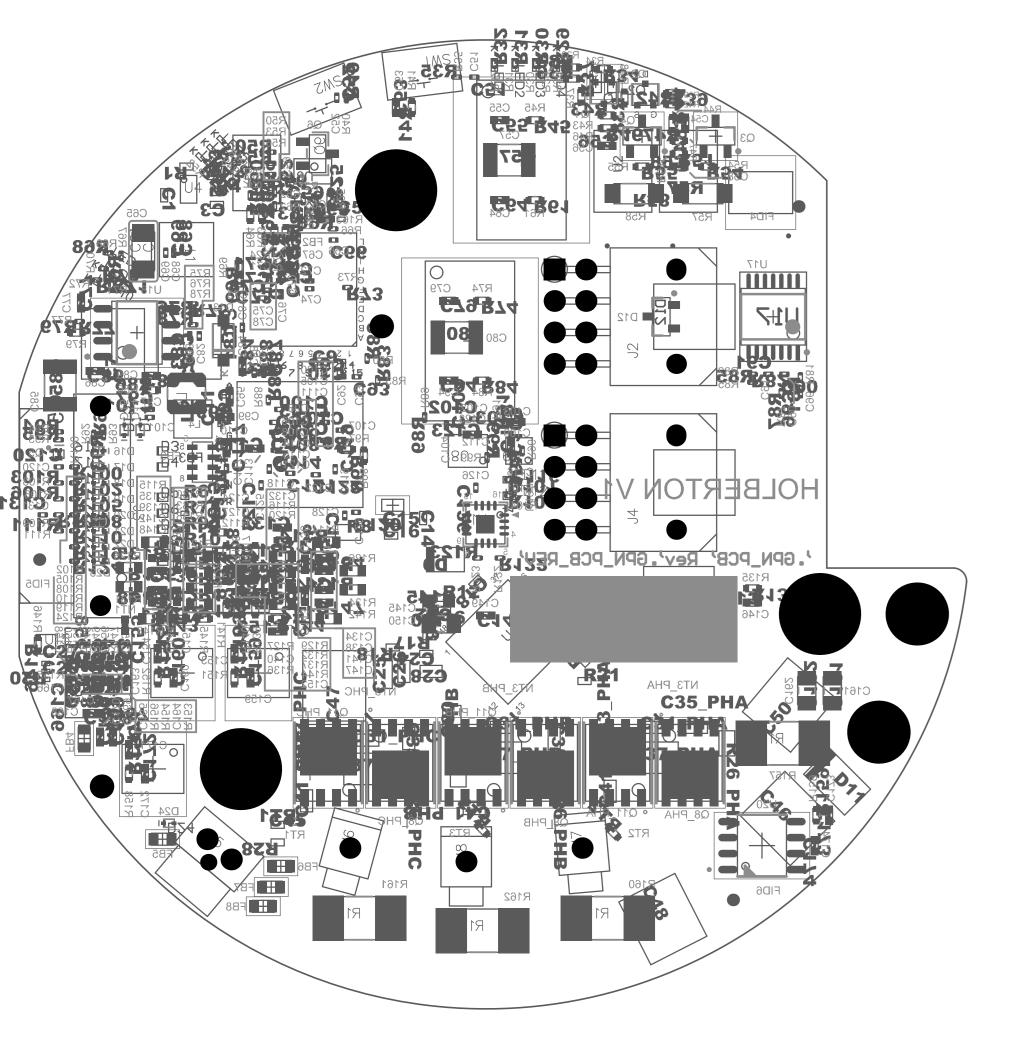
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- 9. A CONFLICT MINERALS REPORTING TEMPLATE (CMRT) MUST BE AVAILABLE UPON REQUEST AT A PART LEVEL FOR ALL SUPPLIED PARTS.
- 10. HOMOGENEOUS SUBSTANCE INFORMATION TO ACCOMPANY THE FABRICATED PART PER IPC-1752 (LATEST REV) DATA STANDARDS.

COMPONENT COUNT: PAD COUNT: 409 NET COUNT:



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