



DIMENSIONS & NOTES

GENERAL NOTES

1. FABRICATE PER ANSI/IPC-A-600,IPC-QE-605, IPC-4101,IPC-4552 AND IPC-SM-840 SPECIFICATIONS. USE OF ROHS-COMPLIANT MATERIALS ENCOURAGED BUT NOT REQUIRED.
2. MATERIAL: BASE MATERIAL LAMINATED EPOXY GLASS FR-4, NOM .062", COLOR NATURAL. NOM 1 OZ COPPER WEIGHT. THICKNESS .070" MAX AFTER PLATING AND FINISHING. PREFER ROHS COMPLIANT PER IPC-4101 SLASH SHEETS #26 OR #83 OR #98 WITH MINIMUM Tg 135 DEGREE C OR HIGHER, Td 300 DEGREE C OR HIGHER & FLAME RATED UL 94V-0.
3. SOLDERMASK BOTH SIDES OF BOARD OVER BARE COPPER WITH MATERIAL PER ANSI/IPC-SM-840, COLOR SHALL BE GREEN.
4. APPLY SOLDER PLATING WITH HOT-AIR LEVELING TO EXPOSED COPPER BOTH SIDES. LEAD-FREE SOLDER PREFERRED; LEADED SOLDER ACCEPTABLE.
5. INDICATED AREA ON BOTTOM SIDE AVAILABLE TO APPLY MARKINGS SUCH AS MANUFACTURE LOGO, UL MARKING, DATE-CODE, ETC. USE OF OTHER LOCATION TO BE APPROVED BY PURCHASER.
6. APPLY SILKSCREEN TO TOP SIDE OF BOARD USING NON-CONDUCTIVE WHITE EPOXY INK.
7. SEE FABRICATION FILES WITH SAME TITLE OR DRAWING NUMBER, AND REVISION, AS THIS DRAWING.
8. DIMENSIONAL TOLERANCES ARE: .XX=+/- .01; .XXX=+/- .005; ANGLES=2 DEG
9. OUTLINE DEFINED IN SEPARATE GERBER FILE WITH ".BRD" SUFFIX. DIMENSIONS OF CIRCUMSCRIBED RECTANGLE AND OTHER EDGES SHOWN ON THIS DWG FOR REF ONLY.
10. SEE SEPARATE DRILL FILE FOR HOLE LOCATIONS. SELECTED HOLE LOCATIONS SHOWN ON THIS DWG FOR REF ONLY.
11. HOLE LOCATIONS SPECIFIED IN SEPARATE DRILL FILE TAKE PRECEDENCE OVER THIS DWG AND ARTWORK. CONTACT PURCHASER TO RESOLVE DIMENSION CONFLICTS BETWEEN DWG AND ARTWORK.
12. HOLE SIZES ARE SPECIFIED AS FINAL DIMENSIONS AFTER PLATING AND FINISHING. UNLESS OTHERWISE SPECIFIED ALL HOLES TO BE PLATED.
13. VENDOR TO PLATE HOLES AND EXPOSED PADS. VENDOR TO SPECIFY TYPE OF PLATING MATERIAL TO BE USED WHEN ACCEPTING ORDER.
14. AFTER ASSEMBLY TRIM SOLDER FILLETS AND COMPONENT LEADS TO 0.06" (MAX) BEYOND BOARD SURFACE ON BOTTOM SIDE.
15. DESIGN GEOMETRY MINIMUM FEATURE SIZES:

TRACE WIDTH; ANULUS	10 MILS	TRACE-TO-TRACE; TRACE-TO-PAD	10 MILS
HOLE-TO-HOLE	25 MILS	PAD-TO-PAD	10 MILS
SILKSCREEN LINE	6.0 MILS	SILKSCREEN-TO-BARE COPPER	7.0 MILS
MINIMUM HOLE SIZE (PLATED)	20 MILS	MAXIMUM HOLE SIZE (UNPLATED)	125 MILS
BOARD EDGE-TO-COPPER	20 MILS		

A. SAMPLE OUTLINE TO DEMONSTRATE USE OF KICAD DRAWING TOOLS.  
DESIGN TO FIT TAKACHI WH145 ENCLOSURE.  
<https://forum.kicad.info/t/outline-graphics-challenge-w-kicad-s-internal-drawing-tools/13536>  
<https://forum.kicad.info/t/step-export-cannot-determine-the-board-outline/13726/11>

REVISION HISTORY

Used On Assy# 20-000NNN-X PWB# 10-000NNN <a href="http://www.forum.kicad.info">www.forum.kicad.info</a>		
Sheet: File: Outline_Example_RevA.kicad_pcb		
Title: PWB,Outline Example Board		
Size: B	Date: 2018-11-20	Rev: A
KiCad E.D.A. kicad (2017-02-10 revision 1bcbbb4)-makepkg		Id: 1/1