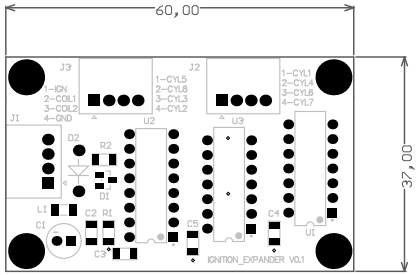
Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0,010mm	3,5	
1	Top Layer	Copper	0,036mm		
	Dielectric 1	FR-4	1,500mm	4,8	
2	Bottom Layer	Copper	0,036mm		
	Bottom Solder	Solder Resist	0,010mm	3,5	
	Bottom Overlay				

	Symbol	Count	Hole Size	Plated	Hole Type	Drill Layer Pair	Via/Pad	Pad Shape
1	□	2	0,700mm (27,56mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)
	○	2	1,300mm (51,18mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded
	☼	4	3,200mm (125,98mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded
	◇	5	0,600mm (23,62mil)	PTH	Round	Top Layer - Bottom Layer	Via	Rounded
	○	12	1,200mm (47,24mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)
	▽	44	0,900mm (35,43mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)
		69 Total						



1. ALL VIAS ARE TENTED ON BOTH SIDES UNLESS OTHERWISE SOLDER MASK OPENED IN GERBER.
2. MANUFACTURER'S IDENTIFICATION,DATECODE LETTER SHALL BE SILKSCREENED ON SOLDER SIDE OF THE BOARD.

DESIGN INFORMATION

MIN. TRACK WIDTH: 10 MIL
MIN. CLEARANCE: 10 MIL
MIN. VIA PAD SIZE: 39 MIL
MINIMUM ANNULAR RING 15 MIL
PER IPC-D-275 CLASS 2 LEVEL C
REGISTRATION TOLERANCES: METAL +/- 5 MIL, HOLES +/- 3 MIL
HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- 3 MIL

MATERIAL:
[ ] FR-408 [X] FR-4 High Tg [ ] OTHER
THICKNESS: [X] 62 MIL (1.6mm) +/-10% [ ] OTHER
TOLERANCE: [X] ANSI IPC-6012 TYPE 3 CLASS 2
[ ] OTHER +/-
BOW & TWIST: [X] ANSI IPC-6012 TYPE 3 CLASS 2
[ ] OTHER +/-

DRILLING:
REFERENCE: [X] AS SHOWN [X] NC_DRILL FILES
PTH COPPER THICKNESS: [ ] 20-30 um [ ] OTHER 0.036mm

BOARD FINISH:
SILKSCREEN: [X] TOP [ ] BOTTOM
SILKSCREEN COLOR: [X] WHITE [ ] OTHER
SOLDER RESIST COLOR: [ ] GREEN [X] OTHER BLACK
[X] MATTE [ ] SEMI-GLOSS

SURFACE FINISH: [ ] IMMERSION GOLD (ENIG) [ ] ENEPIG
[X] IMM. TIN/SILVER OR EQUIV [ ] OTHER

ARRAY/PANEL: [ ] CUT AND TRIM PER M1 BOARD OUTLINE
[X] N.C. ROUTE [ ] V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBS TO MEET OR EXCEED THE REQUIREMENTS OF:
[X] ANSI IPC-A-600F CLASS -> [ ] 1 [X] 2 [ ] 3
[X] RoHS [ ] OTHER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER

ADDITIONAL REQUIREMENTS:
MICROSECTION: [ ] YES
BARE BOARD ELEC. TEST: [ ] NONE [X] REQUIRED [ ] PER ORDER

PROJECT TITLE: IGNITION_EXPANDER
DESIGNED FOR:
FILE NAME: Ignition_expander.PcbDoc
ENGINEER:
LAYOUT BY:
SCALE: 1.00
ALTIUM DESIGNER VERSION: 20.0.14.345