

PCB FABRICATION NOTES

CONSTRUCTION

FAB SPECIFICATION
LEAD-FREE RoHS
MATERIAL
FINAL PCB THICKNESS
LAYER COUNT
LAYER STACK-UP
IMPEDENCE CONTROL
SPECIAL CORES
BOARD EDGE
BOW & TWIST
PROFILING

IPC-6012 CLASS ☐ 1 ☒ 2 ☐ 3 ☐ MIL-SPEC P-55110
☒ YES TO EU DIRECTIVE ☐ NOT REQD
SEE STACKUP DETAIL
☐ 0.8mm ☐ 1.2mm ☐ 1.6mm ☒ 2.4mm ☐ OTHER ____mm
☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ 10 ☐ 12 ☐ OTHER ____
SEE DETAIL DRAWING
☒ YES ☐ NO IF YES, SPECIFY Zo ____100 ohm____
☒ YES ☐ NO SEE STACKUP DETAIL
NO METAL BURRS AND SHARP EDGES
1% MAX ON SMD PCBs
☒ NC-ROUTE ☐ V-SCORE ☐ BOTH AS INDICATED

CONDUCTIVE MATERIAL

CU THICKNESS INTERNAL ☐ 18um ☒ 35um ☐ 70um ☐ ____um FINISHED
CU THICKNESS EXTERNAL ☐ 18um ☒ 35um ☐ 70um ☐ 105um FINISHED
PLATING FINISH ☐ HAL ☒ ENIG ☐ I-Ag (Imm-Silver) ☐ I-Sn (Imm-Tin)
SELECTIVE Au PLATING ☒ NO ☐ YES ON EDGE FINGERS ☐ AS INDICATED

INTERCONNECTS

DRILL PROCESS ☒ THT ☐ BLIND & BURIED VIAS ☐ LASER VIAS
HOLE WALL PLATING AS SPECIFIED IN IPC-6012 CLASS
FINAL HOLE SIZE AS SPECIFIED IN TABLE, AFTER THRU-HOLE PLATING
MIN HOLE SIZE (mm) ☐ 0.10 ☐ 0.15 ☐ 0.2 ☒ 0.25 ☐ LARGER
TOTAL HOLE COUNT 7
QTY SIGNAL LAYERS ☐ 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10
QTY COPPER PLANES ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☒ 4 ☐ 5 ☐ 6
MIN TRACE WIDTH (mm) ☒ 0.10 ☐ 0.125 ☐ 0.15 ☐ 0.175 ☐ LARGER
MIN TRACE SPACING (mm) ☒ 0.10 ☐ 0.125 ☐ 0.15 ☐ 0.175 ☐ LARGER

COSMETICS

SOLDERMASK SIDES ☐ TOP ☐ BOT ☒ BOTH SIDES
SOLDER MASK TYPE SOLDER MASK OVER BARE COPPER (SMOBC)
SOLDER MASK COLOUR ☒ GRN ☐ BLUE ☐ YEL ☐ RED ☐ BLACK
SOLDERMASK WEBBING GANG RELIEF NOT ALLOWED, UNLESS BELOW CAPABILITY
SILKSCREEN COLOUR ☒ WHITE ☐ YEL ☐ OTHER ____
SILKSCREEN PRINT NO LEGEND TO BE APPLIED OVER SOLDER PADS
SILKSCREEN QTY ☐ TOP ☐ BOT ☒ BOTH SIDES ☐ NONE
SILKSCREEN LINE WIDTH ☒ 0.175mm ☐ 0.2mm
SILKSCREEN OVER PADS NOT PERMITTED, PLEASE REMOVE IF PRESENT

MANUFACTURING DEVIATIONS

PAD REMOVAL ALLOWED ON UNUSED PADS ON INNER LAYERS
TEARDROPPING PREFERRED, APPLY PLEASE
THIEVING ALLOWED ON PANEL STRIPS
VIA SIZE REDUCTION NOT ALLOWED

ADDITIONAL REQUIREMENTS

ELECTRICAL TEST ☐ NONE ☐ FIXTURE ☒ FLYING PROBE
MANUFACTURER LOGO ☐ YES ☒ NO
BATCH No ON S/SCREEN ☒ YES ☐ NO
CERTIFICATE REQ'D ☒ E-TEST ☐ UL ☐ IPC-6011/12 ☐ MIL-SPEC P-55110

MANUFACTURING DATA

GERBER DATA

FILENAME.EXT: KATADC_V1-3

TOP COPPER ☒ YES ☐ NO .GTL
BOTTOM COPPER ☒ YES ☐ NO .GBL
MIDLAYER SIGNAL #1 ☐ YES ☒ NO .G1
MIDLAYER SIGNAL #2 ☐ YES ☒ NO .G2
MIDLAYER SIGNAL #3 ☐ YES ☒ NO .G3
MIDLAYER SIGNAL #4 ☐ YES ☒ NO .G4
MIDLAYER SIGNAL #5 ☐ YES ☒ NO .G5
MIDLAYER SIGNAL #6 ☐ YES ☒ NO .G6
MIDLAYER SIGNAL #7 ☐ YES ☒ NO .G7
MIDLAYER SIGNAL #8 ☐ YES ☒ NO .G8
MIDLAYER SIGNAL #9 ☐ YES ☒ NO .G9
MIDLAYER SIGNAL #10 ☐ YES ☒ NO .G10
GND/PWR PLANE #1 ☒ YES ☐ NO .GP1
GND/PWR PLANE #2 ☒ YES ☐ NO .GP2
GND/PWR PLANE #3 ☒ YES ☐ NO .GP3
GND/PWR PLANE #4 ☒ YES ☐ NO .GP4
GND/PWR PLANE #5 ☐ YES ☒ NO .GP5
GND/PWR PLANE #6 ☐ YES ☒ NO .GP6
TOP SOLDER MASK ☒ YES ☐ NO .GTS
BOTTOM SOLDER MASK ☒ YES ☐ NO .GBS
TOP OVERLAY ☒ YES ☐ NO .GTO
BOTTOM OVERLAY ☒ YES ☐ NO .GBO
TOP SOLDER PASTE ☒ YES ☐ NO .GTP
BOTTOM SOLDER PASTE ☒ YES ☐ NO .GBP
TOP SELECTIVE GOLD ☐ YES ☒ NO .GTG
BOTTOM SELECTIVE GOLD ☐ YES ☒ NO .GBG
TOP PEELABLE BLUE ☐ YES ☒ NO .GTB
BOTTOM PEELABLE BLUE ☐ YES ☒ NO .GBB

MANUFACTURING DRAWING PCB FILENAME . PDF
DRILL SET #1 (THP) ☒ YES ☐ NO FILENAME PLATED . TXT
DRILL SET #2 (N-THP) ☒ YES ☐ NO FILENAME NONPLATED . TXT
DRILL SET #3 (BLIND1) ☐ YES ☒ NO FILENAME BLIND1 . TXT
DRILL SET #4 (BLIND2) ☐ YES ☒ NO FILENAME BLIND2 . TXT
DRILL SET #5 (BURIED1) ☐ YES ☒ NO FILENAME BURIED1 . TXT
DRILL SET #6 (BURIED2) ☐ YES ☒ NO FILENAME BURIED2 . TXT

MANUFACTURING ZIP FILENAME: KATADC_V1-3 .MANUFACTURE.ZIP

SPECIAL INSTRUCTIONS

- 1) NC-ROUTE AS INDICATED.
2) NOTE PCB THICKNESS MAX 2.4mm
3) NOTE SPECIAL CORES REQUIRED.
4)
5)

V-GROOVE DETAIL

APPLY TO PANELISED PCB IF APPLICABLE AND REQUESTED



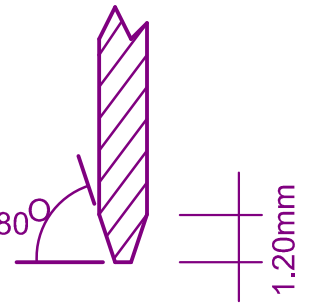
6-Layer PCB StackUp
Final PCB Thickness 2.4mm



CHAMFER DETAIL

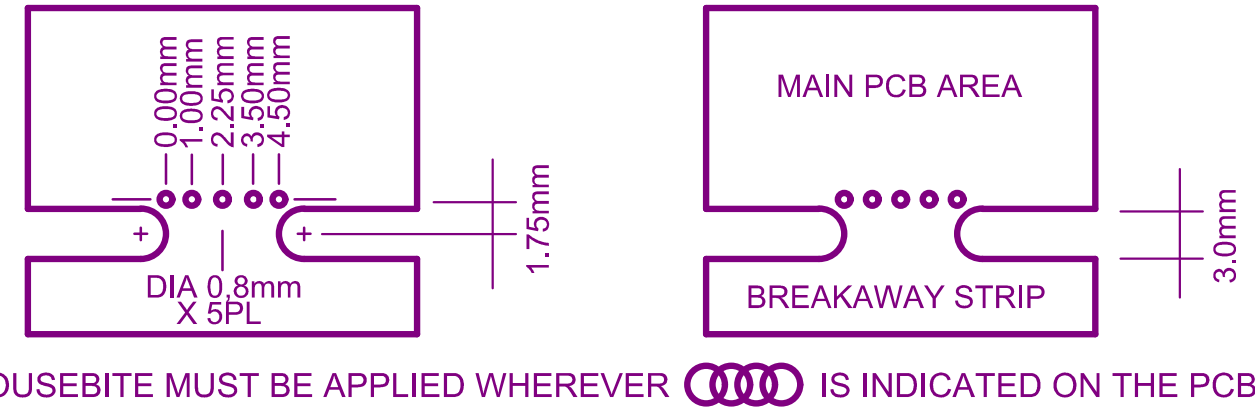
GOLD FINGER EDGE CONNECTOR

APPLY IF APPLICABLE AND REQUESTED IN NOTES

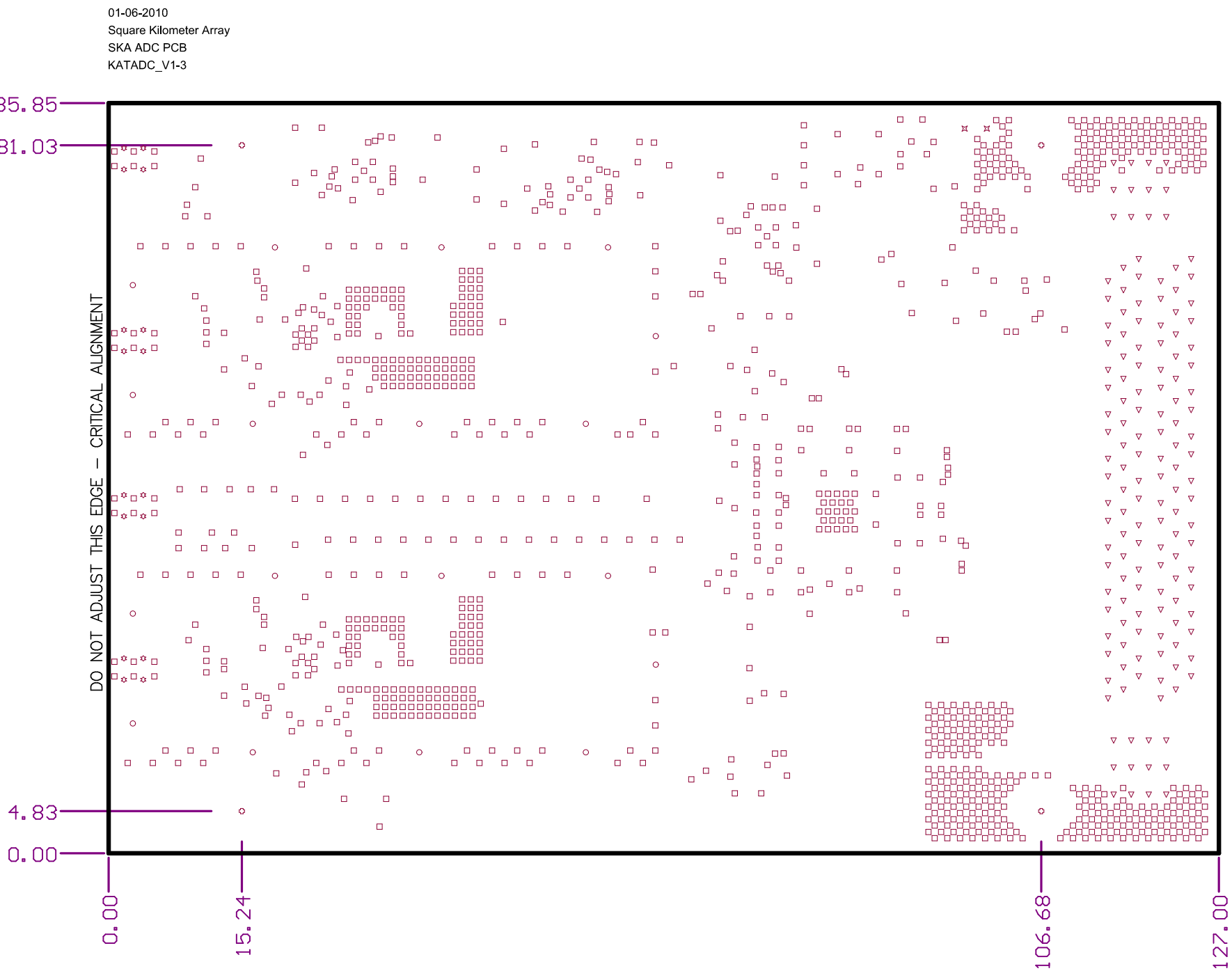


MOUSEBITE BREAKAWAY DETAIL

APPLY TO PANELISED PCB IF APPLICABLE



MOUSEBITE MUST BE APPLIED WHEREVER  IS INDICATED ON THE PCB



Symbol	Hit Count	Tool Size	Plated	Hole Type
□	1096	0.25mm <9.842mil>	PTH	Round
▽	144	0.6mm <23.622mil>	PTH	Round
✕	2	0.9mm <35.433mil>	PTH	Round
⊙	16	1.2mm <47.244mil>	PTH	Round
○	18	2.2mm <86.614mil>	PTH	Round
⊗	4	3.8mm <149.606mil>	PTH	Round
	1280 Total			

DESIGNED WITH: ALTium DESIGNER S09

CAD DESIGN BY: EDA TECHNOLOGIES

DATESTAMP OF THIS PRINT: 26/10/2010 13:22:34

DATE:	01-06-2010
DRAWN BY:	EDA
ENGINEER:	E.B.
ECO No.:	-
APPROVED:	

SKA

PCB NAME: SKA ADC PCB
DOC NUMBER: KATADC_V1-3

PROJECT FILENAME: KATADC_V1-3.PrjPCB
PCB FILENAME: KATADC_V1-3.PcbDoc

SCALE: ORIG
NTS A2

SHEET:
1 of 1

REVISION:
A