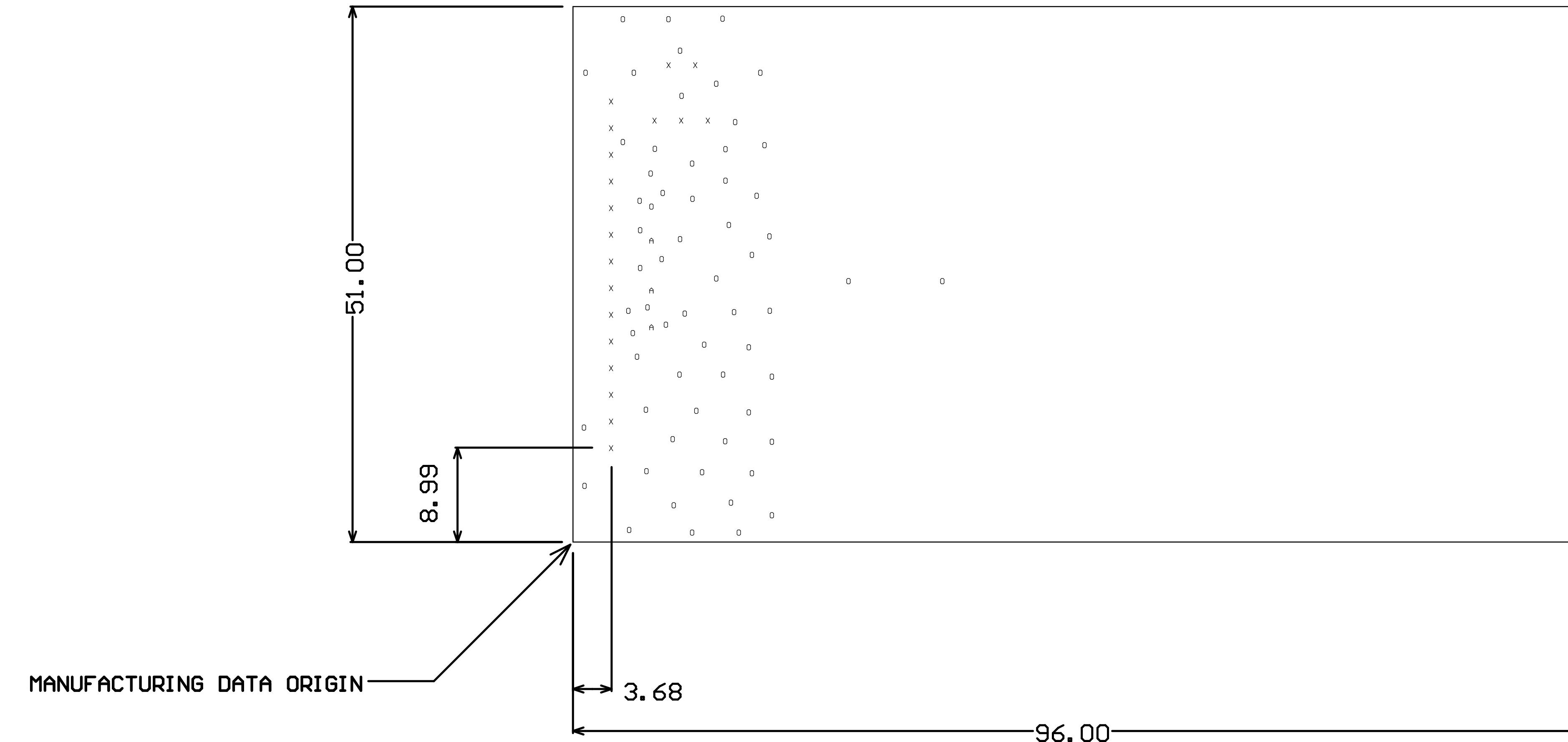


TOP LAYER VIEW



Symbol	Count	Hole Size	Plated	Via/Pad
O	62	0.400mm	PTH	Via
A	3	0.600mm	PTH	Pad
X	19	1.000mm	PTH	Pad
84 Total				

Hole Size shall be taken as follow

- PTH PAD : Finished Size
 - PTH VIA : Drill Size
 - Any NPTH : Drill Size

Hole Size Tolerance (unless otherwise specified):

PTH <1.6mm: +0.1/-0.05 PTH >1.6mm: +0.15/-0.1
NPTH: +/-0.1

Vias: No requirement regarding to the finished hole size

WARNING:
Drill letters are only intended to provide an overview of the drill map. They may not match with the exact holes location.
They shall not be used for drill process.

BOARD DESIGN CONCEPTION VALUES

SPECIFIED VALUES ARE MINIMUM. USED VALUES MAY BE LARGER

	EXTERNAL LAYERS	INTERNAL LAYERS
PLATED HOLES MIN. ANNULAR RING	FINISHED HOLE + 0.30mm	N/A
VIA MINIMUM ANNULAR RING	DRILL HOLE + 0.225mm	N/A
HOLE TO HOLE MINIMUM CLEARANCE	0.35mm	

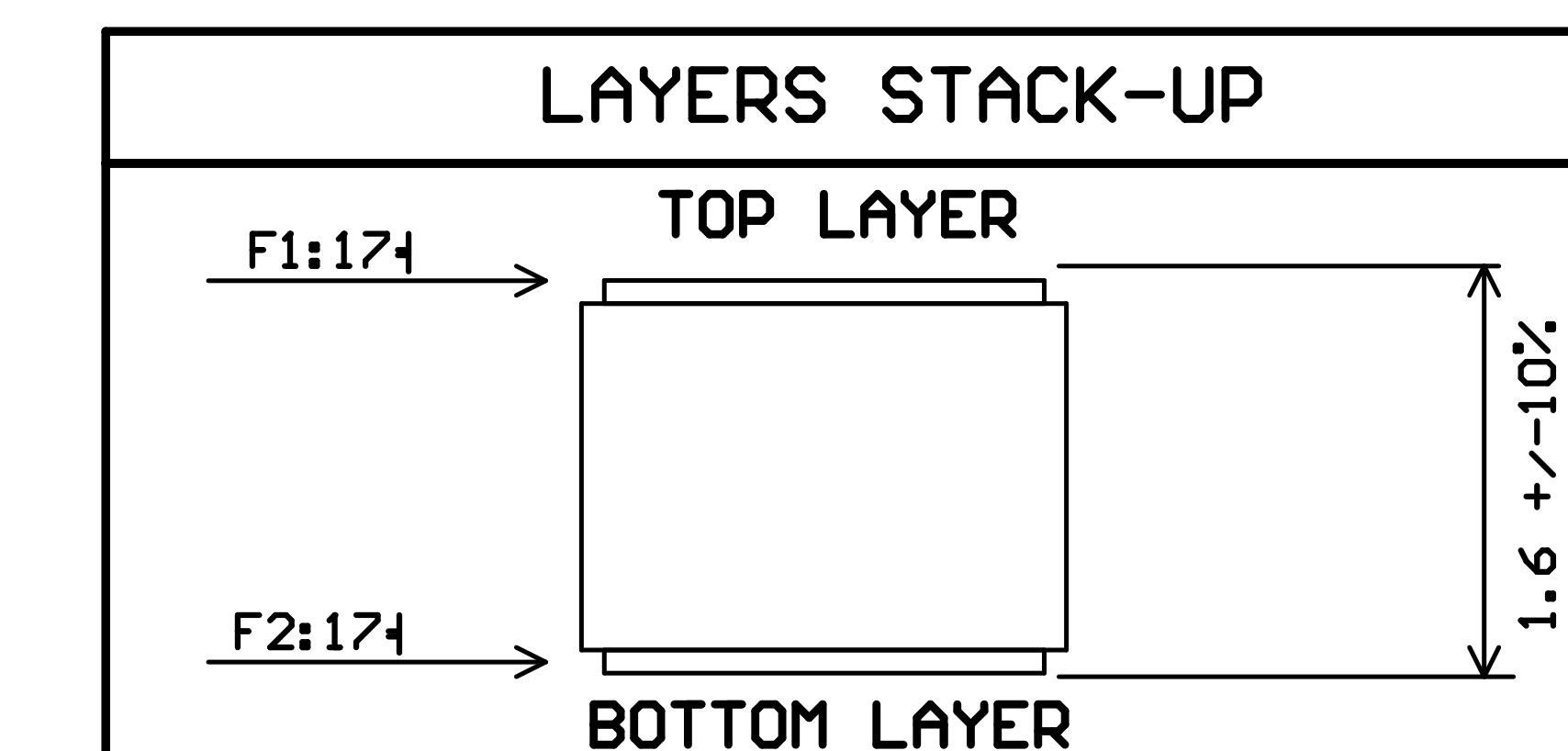
MINIMUM TRACK WIDTH	0.20mm
MINIMUM CLEARANCE BETWEEN COPPER PARTS	0.20mm
MINIMUM CLEARANCE BETWEEN : NON-PLATED HOLES & COPPER PARTS : N/A BOARD EDGE & COPPER PARTS : 0.50mm	
SOLDER MASK EXPANSION FROM PAD EDGE : 0.05mm	
VIAS PROTECTION : HOLE FREE OF SOLDER MASK WITH 0.05mm EXPANSION FROM THE DRILL HOLE EDGE	
MINIMUM SOLDER MASK SLIVER	0.10mm

SPECIFIC & LOCAL VALUES

NONE

**NOTES WHICH REFER TO IPC6012 SPECIFICATION
IMPLY USE OF DOCUMENT LAST REVISION**

- 1- MANUFACTURING ACCORDING TO IPC-6012C CLASS 2
 - 2- MATERIAL : FR4 TG 135 MINI - LOW CTE
 - 3- HOLES PLATING : COPPER PLATING ACCORDING TO
IPC-6012 RELATED TABLES
 - 4- COPPER WEIGHT : SEE LAYERS STACK-UP.
ACCORDING TO IPC-6012 RELATED TABLES:
(INTERNAL , EXTERNAL STARTING FOIL)
 - 5- EXTERNAL LAYERS CHEMICAL PLATING:
GOLD OVER NICKEL ACCORDING TO
IPC6012 RELATED TABLE - CODE ENIG
 - 6- SOLDER RESIST :
LIQUID PHOTOIMAGEABLE
— COLOR : RED
 - 7- SILK SCREEN PRINTING
EPOXYDE WHITE INK
 - 8- PACKING PAPER WITH CORROSION INHIBITOR
 - 9- RoHS COMPLIANT PRODUCT



**174 STARTING FOIL IS NOT MANDATORY
BUT FINISHED Cu THICKNESS SHALL BE CLOSE TO 354**