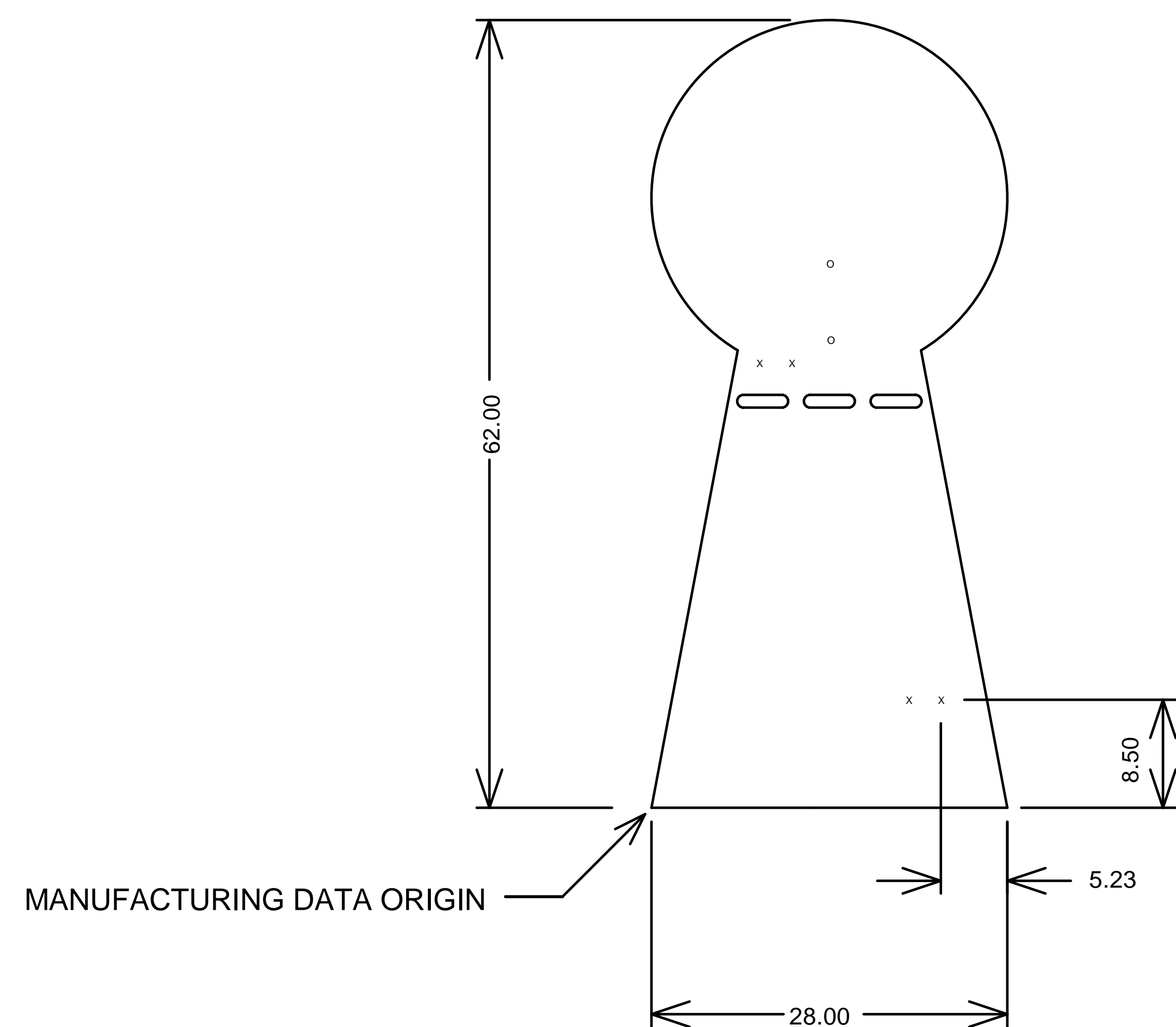


## TOP LAYER VIEW



FOR COMPLETE BOARD OUTLINE AND CUTOUTS DEFINITION,  
REFER TO BOARD OUTLINE GERBER FILE

ALL INTERNAL RADIUS : 1.00mm Max

Symbol	Count	Hole Size	Plated	Via/Pad
O	2	0.250mm	PTH	Via
X	4	1.000mm	PTH	Pad
	6 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	

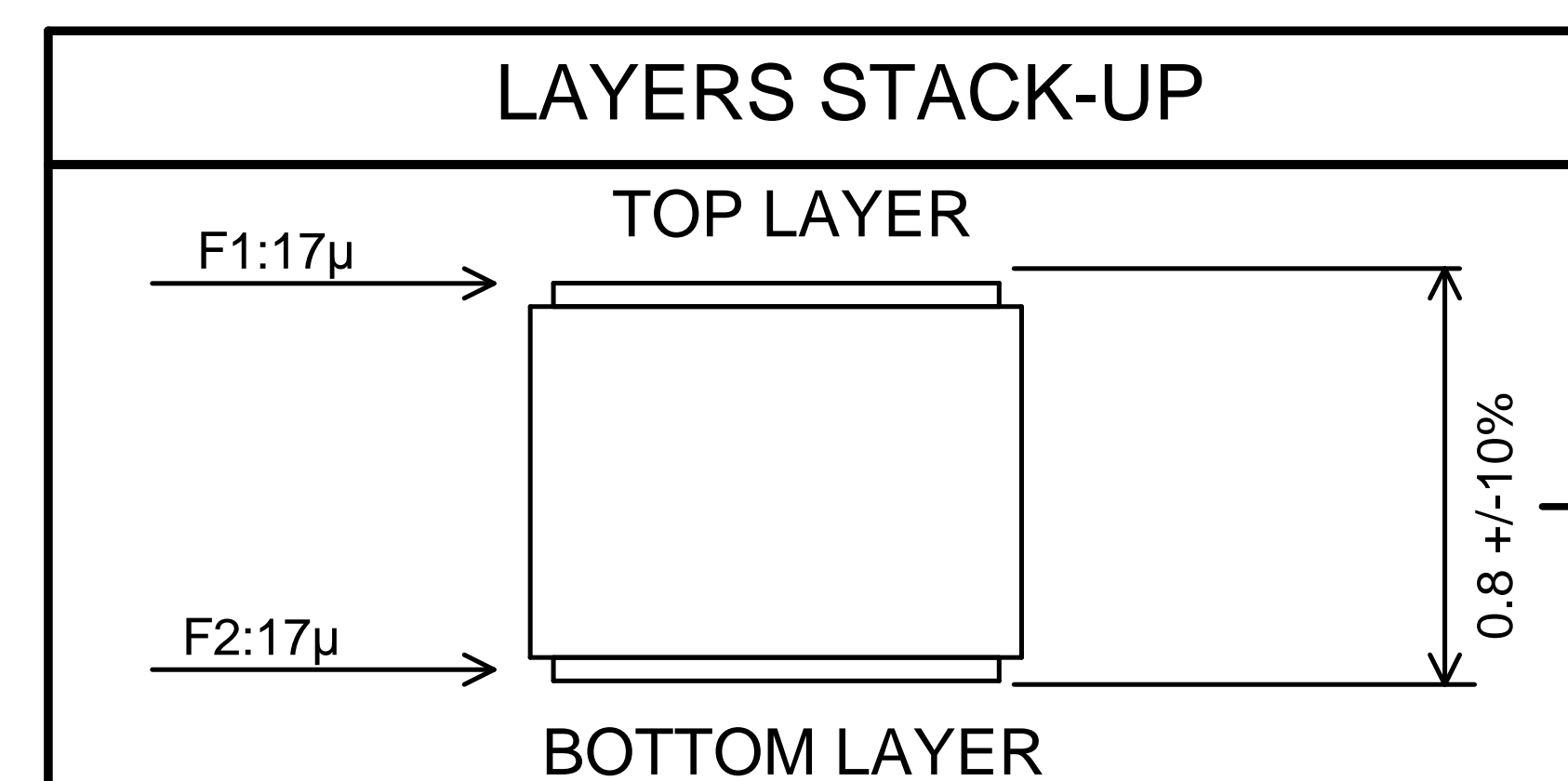
Vias: No requirement regarding to the finished hole size


**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 + 0.15mm	N/A
HOLE TO HOLE MINIMUM CLEARANCE	0.35mm	
MINIMUM TRACK WIDTH		0.15mm
MINIMUM CLEARANCE BETWEEN COPPER PARTS		0.15mm
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		
TO ENSURE 0.1mm MINIMUM SOLDER MASK SLIVER, PAD SOLDER MASK EXPANSION IS LOCALLY REDUCED TO 0.025mm		

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

- 1- MANUFACTURING ACCORDING TO IPC-6012 CLASS 2
- 2- MATERIAL : FR4 TG 170 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 : WHITE
- 7- SILK SCREEN PRINTING  
EPOXYDE BLUE INK
- 8- PACKING PAPER WITH CORROSION INHIBITOR
- 9- RoHS COMPLIANT PRODUCT



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