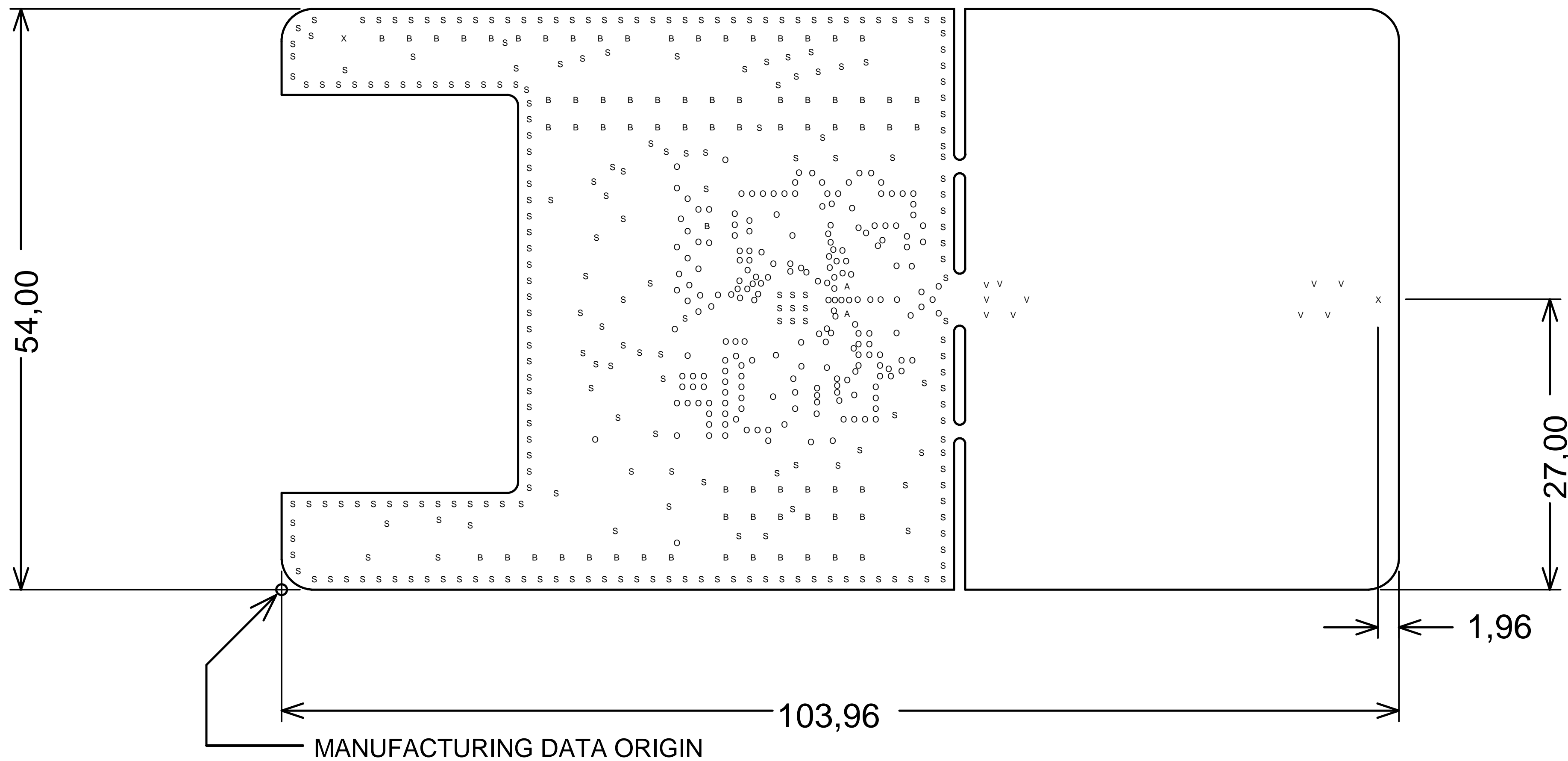


TOP LAYER VIEW

FOR FULL BOARD OUTLINE AND ITS CUTOUTS DEFINITION,  
REFER TO BOARD OUTLINE GERBER FILE



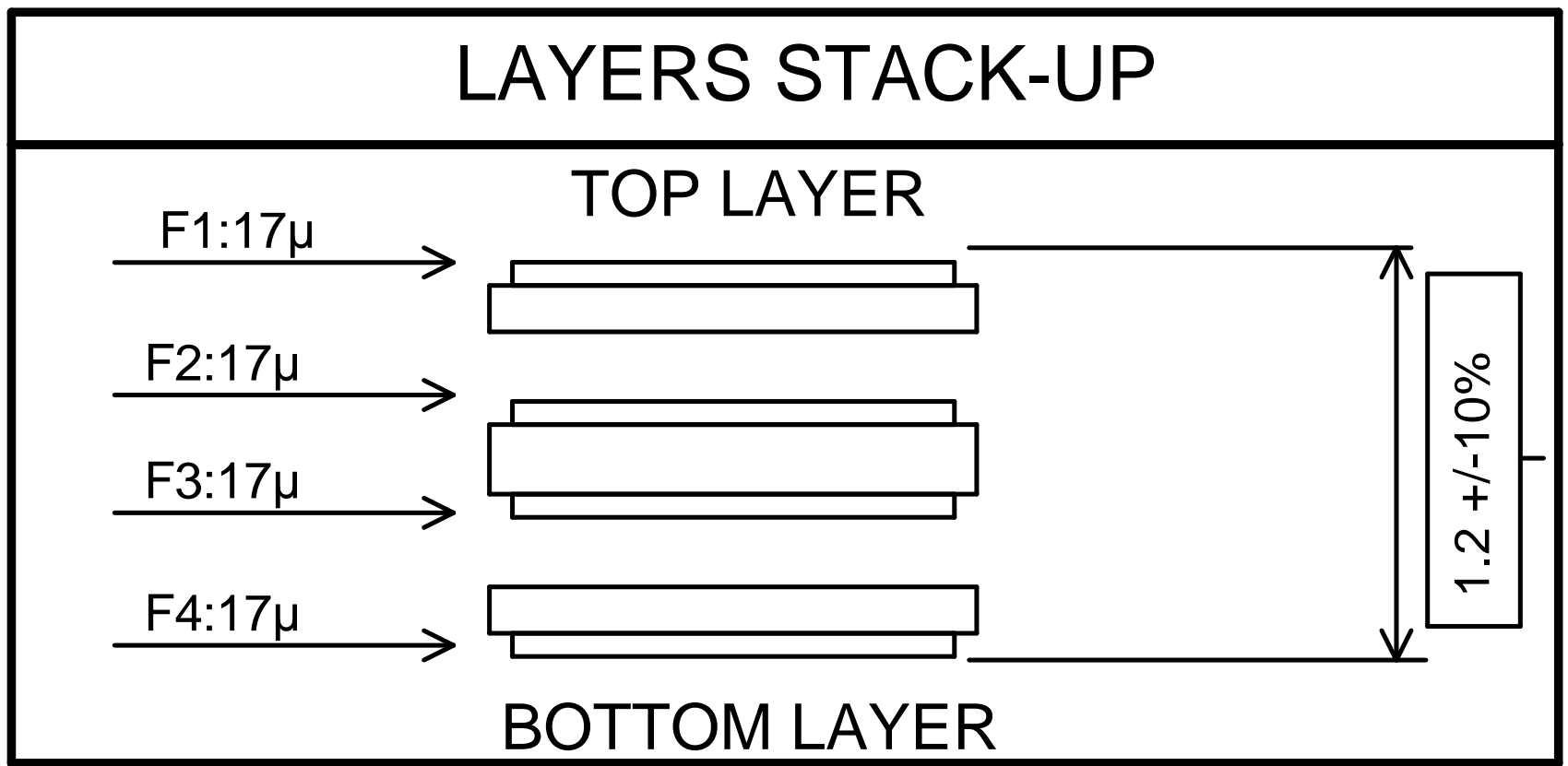
Symbol	Count	Hole Size	Plated	Via/Pad
O	211	0,20mm	PTH	Via
S	256	0,30mm	PTH	Via
V	10	0,50mm	PTH	Via
A	2	0,90mm	PTH	Pad
B	73	1,00mm	PTH	Pad
X	2	3,20mm	NPTH	Pad
554 Total				

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

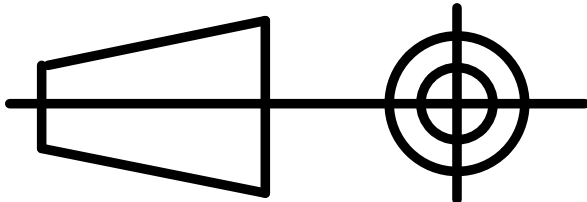

WARNING:  
Drill letters are only intended to provide an overview of the drill map. They may not match with the exact holes location. They shall not be used for drill process.



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	FINISHED HOLE + 0.30mm
VIA MINIMUM ANNULAR RING	DRILL HOLE + 0.15mm	DRILL HOLE + 0.15mm
HOLE TO HOLE MINIMUM CLEARANCE	0.35mm	
MINIMUM TRACK WIDTH		0.20mm
MINIMUM CLEARANCE BETWEEN COPPER PARTS		0.12mm
MINIMUM CLEARANCE BETWEEN : NON-PLATED HOLES & COPPER PARTS : 0.5mm BOARD EDGE & COPPER PARTS : 0.50mm		
SOLDER MASK EXPANSION FROM PAD EDGE : 0.05mm		
VIAS FREE OF SOLDER MASK WITH 0.05mm EXPANSION FROM VIA HOLE EDGE		
MINIMUM SOLDER MASK SLIVER		0.10mm
SPECIFIC AND LOCAL VALUES		
NONE		

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

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

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