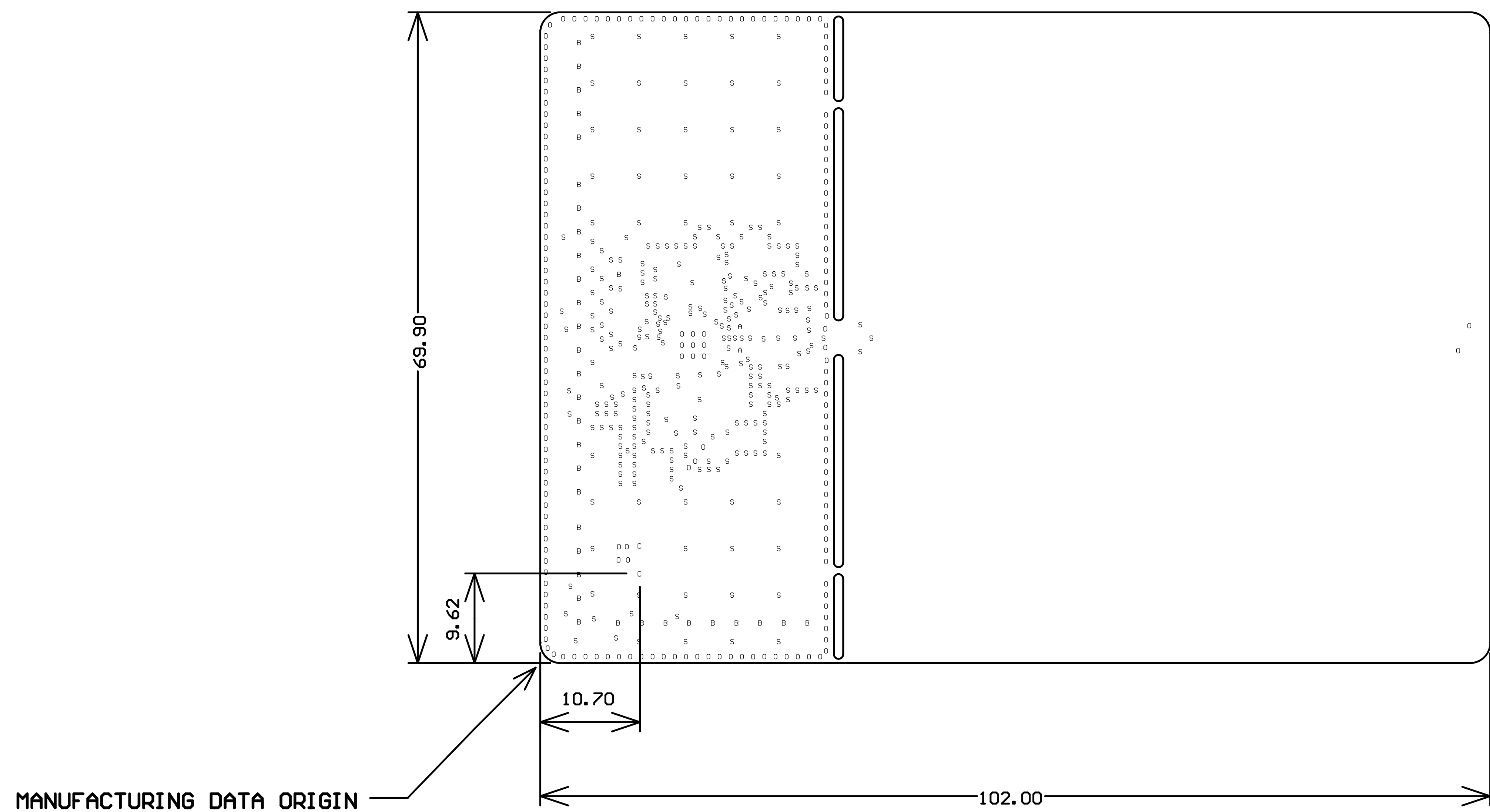


TOP LAYER VIEW

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



Symbol	Count	Hole Size	Plated	Via/Pad
S	284	0.20mm	PTH	Via
O	178	0.30mm	PTH	Via
A	2	0.90mm	PTH	Pad
B	34	1.00mm	PTH	Pad
C	2	0.90mm	NPTH	Pad
500 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

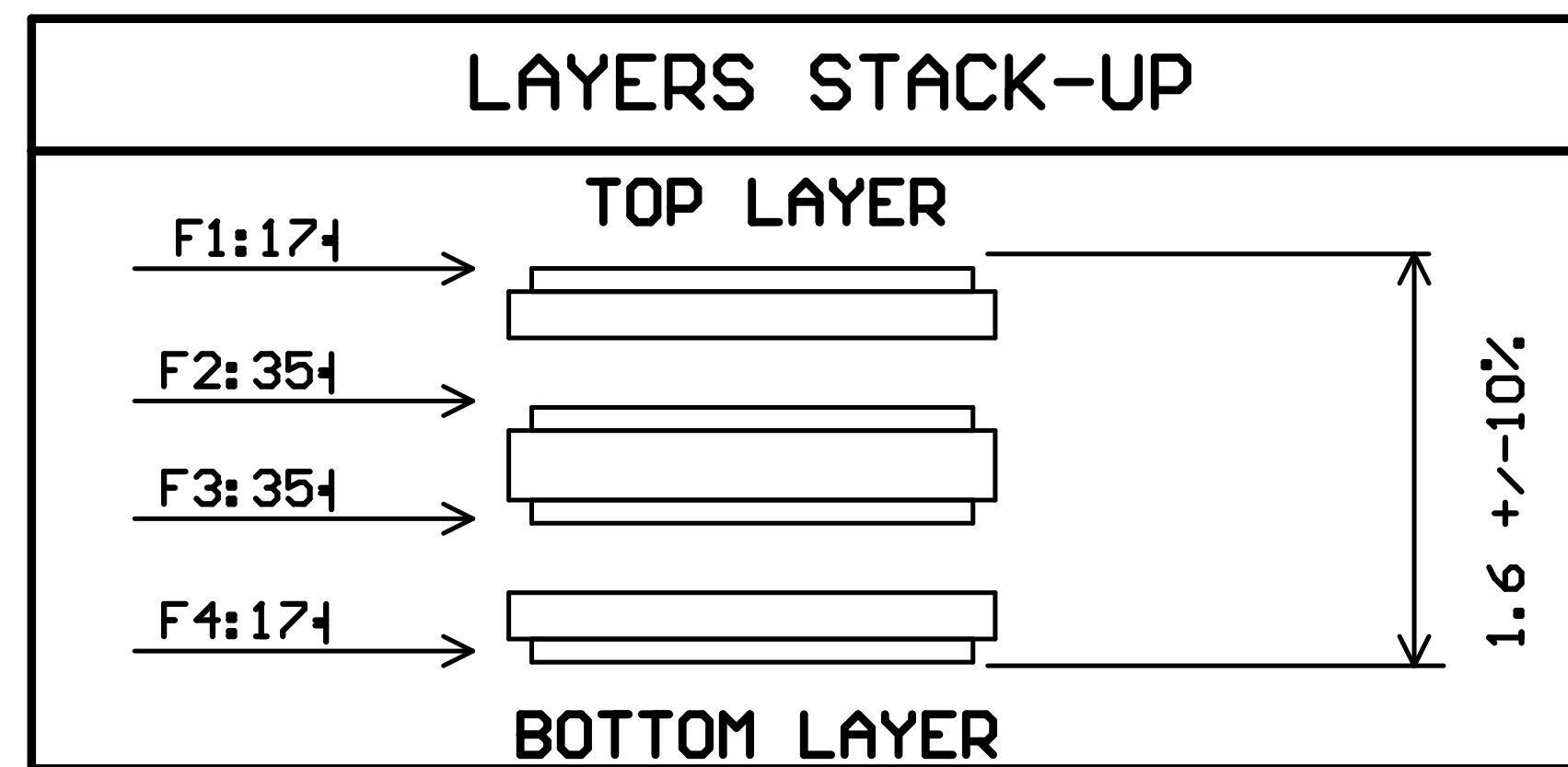
Vias: No requirement regarding to the finished hole size

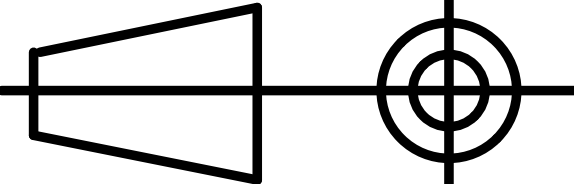

WARNING:
Drill letters are only intended to provide an overview of the drill map. They may not match with the exact holes location. They shall not be used for drill process.

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	0.15mm	
MINIMUM CLEARANCE BETWEEN COPPER PARTS	0.12mm	
MINIMUM CLEARANCE BETWEEN : NON-PLATED HOLES & COPPER PARTS : 0.5mm BOARD EDGE & COPPER PARTS : 0.30mm SOLDER MASK EXPANSION FROM PAD EDGE : 0.05mm		
VIAS PROTECTION : VIAS ARE TENTED		
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 0.01mm		

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 : BLUE
- 7- SILK SCREEN PRINTING EPOXYDE WHITE INK
- 8- PACKING PAPER WITH CORROSION INHIBITOR
- 9- RoHS COMPLIANT PRODUCT



DATE	EVOLUTION	DESIGNER	REV	DATE	EVOLUTION	DESIGNER	REV		
TITLE : STEVAL -D25R16B						GENERAL TOL. +/- 0,2			
DOCUMENT : DRILL DRAWING									
	SCALE : 1/1	DRAWN : BE TECH		CHECKED	APPROVED				
	UNIT. : mm	DATE : 28 JUNE 2022							
 ST MICROELECTRONICS SKY SOPHIA BATIMENT B 776 RUE ALBERT CAQUOT SOPHIA ANTIPOLIS 06410 BIOT FRANCE		DOCUMENT REFERENCE							
		PART NUMBER				FORMAT	SHEET		
		MB1749				3	01/01		