

Symbol	Count	Hole Size	Plated	Hole Type	Via/Pad	Hole Length	Rout Path Length
O	397	0.400mm	PTH	Round	Via	-	-
A	2	0.600mm	PTH	Slot	Pad	1.300mm	0.700mm
B	2	0.650mm	PTH	Slot	Pad	0.850mm	0.200mm
C	15	0.900mm	PTH	Round	Pad	-	-
F	2	1.000mm	NPTH	Round	Pad	-	-
D	69	1.000mm	PTH	Round	Pad	-	-
E	1	1.200mm	PTH	Round	Pad	-	-
X	4	2.700mm	PTH	Round	Pad	-	-
492 Total							

Slot definitions : Rout Path Length = Calculated from tool start centre position to tool end centre position.
Hole Length = Rout Path Length + Tool Size = Slot length as defined in the PCB layout

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

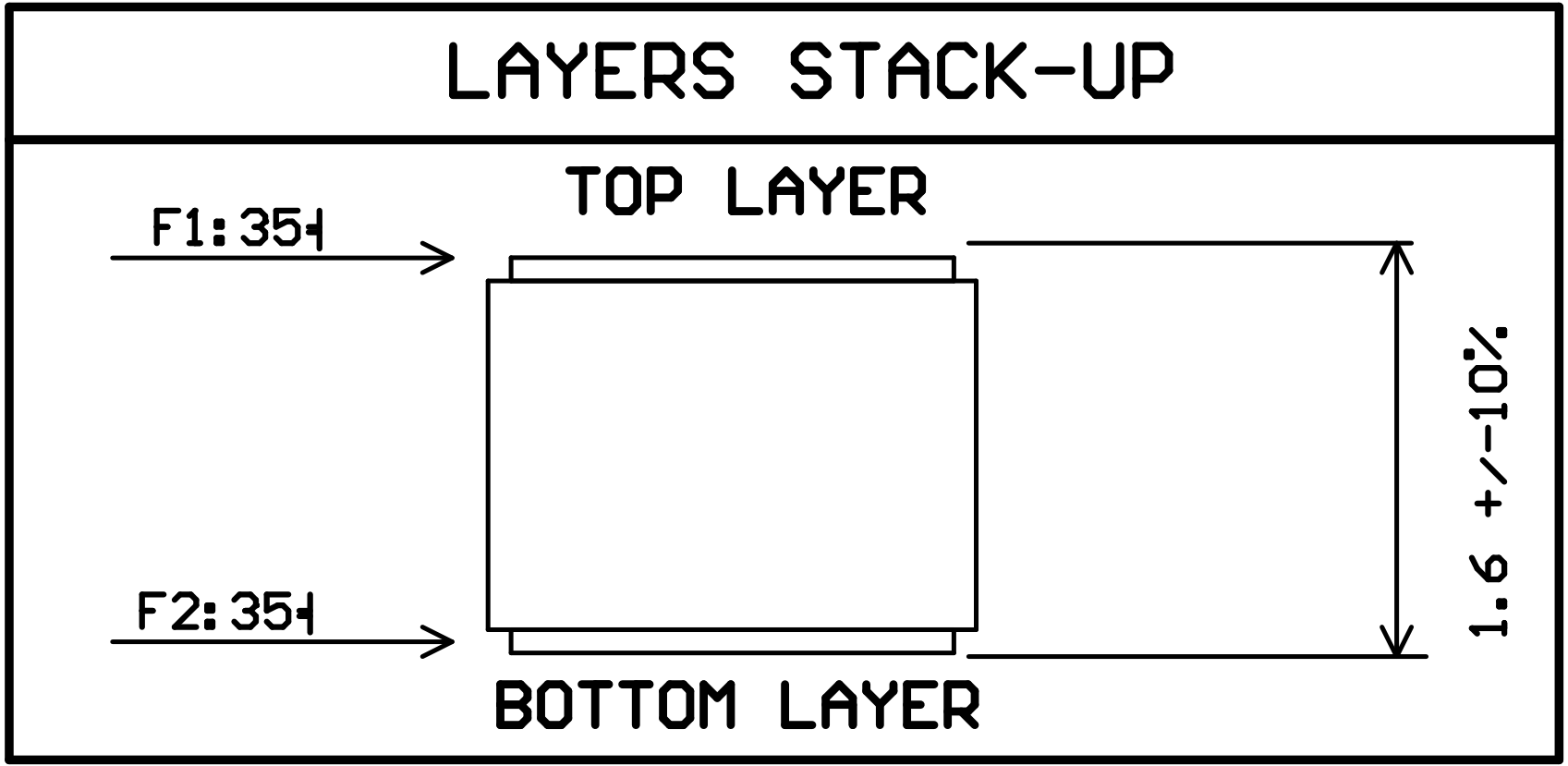
WARNING:
Drill letters are only intended to provide an overview of the drill map. They may not match with the exact holes location. They shall not be used for drill process.

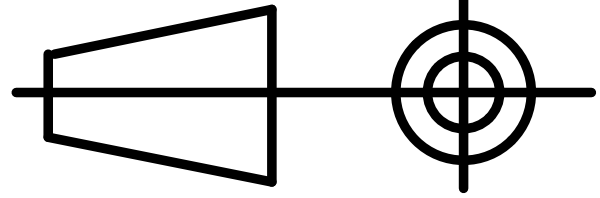

BOARD DESIGN DEFAULT PARAMETERS		
SPECIFIED VALUES ARE MINIMUM. USED VALUES MAY BE LARGER		
	EXTERNAL LAYERS	INTERNAL LAYERS
PLATED HOLES MIN. ANNULAR RING	FINISHED HOLE + 0.27mm	N/A
VIA MINIMUM ANNULAR RING	DRILL HOLE + 0.225mm	N/A
HOLE TO HOLE MIN. CLEARANCE	0.35mm	
MINIMUM TRACK WIDTH		0.20mm
MINIMUM CLEARANCE BETWEEN COPPER PARTS		0.15mm
MINIMUM CLEARANCE BETWEEN : NON-PLATED HOLES & COPPER PARTS : 0.50mm BOARD EDGE & COPPER PARTS : 0.50mm		
SOLDER MASK EXPANSION FROM PAD EDGE : 0.05mm SOLDER MASK EXPANSION FROM VIA HOLE EDGE : 0.05mm		
MINIMUM SOLDER MASK SLIVER		0.10mm
SPECIFIC PARAMETERS		
DUE TO MECHANICAL CONSTRAINTS, SOME PADS ANNULAR RING IS LOCALLY REDUCED TO 0.195mm		

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

- 1- MANUFACTURING ACCORDING TO IPC-6012 CLASS 2
- 2- MATERIAL : UT-47 OR EQUIVALENT
- 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 } TOP AND BOTTOM LAYERS
- 7- SILK SCREEN PRINTING
EPOXYDE WHITE INK } TOP AND BOTTOM LAYERS
- 8- PACKING PAPER WITH CORROSION INHIBITOR
- 9- RoHS COMPLIANT PRODUCT



DATE	EVOLUTION	DESIGNER	REV	DATE	EVOLUTION	DESIGNER	REV					
TITLE : STEVAL-M25R16B						GENERAL TOL. +/- 0.2						
DOCUMENT : DRILL DRAWING												
		SCALE : 1/1	DRAWN : BE TECH		CHECKED	APPROVED						
		UNIT. : mm	DATE : 27 JUNE 2022									
 ST MICROELECTRONICS SKY SOPHIA BATIMENT B 776 RUE ALBERT CAQUOT SOPHIA ANTIPOLIS 06410 BIOT FRANCE			DOCUMENT REFERENCE									
			PART NUMBER				FORMAT	SHEET				
			MB1396				3	01/01				
									C	B	A	REV