



FABRICATION NOTES :

- 1:FABRICATE USING LATEST REVISION OF STM SPECIFICATION.
- 2:FABRICATE USING MASTER ARTWORK X-NUCLEO-OUT09A1 R2 FOR CIRCUIT PATTERN.
NO DEVIATION FROM MASTER ARTWORK ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM AN AUTHORIZED "CLIENT NAME" REPRESENTATIVE
- 3:VENDOR MUST BE UL QUALIFIED AND BOARDS MUST BE IDENTIFIED WITH APPROPRIATE VENDOR UL IDENTIFICATION MARK, LOT OR JOB NUMBER AND PCB MATERIAL FLAMMABILITY RATING (94V-0) MINIMUM.
- 4:MATERIAL - FR4 RoHS COMPLIANT MINIMUM 125 C.
SEE "Cross Section Chart" FOR BOARD THICKNESS, COPPER WEIGHT AND LAYER CONSTRUCTION.
- 5:BLUE SOLDER MASK BOTH SIDE OF BOARD WITH LIQUID PHOTO IMAGEABLE SOLDERMASK.
- 6:FINISH - HASL LF RoHS COMPLIANT
- 7:FOR SMT COMPONENTS WITH PIN PITCH OF 0.019 INCH OR MORE NO GANG RELIEF OF SOLDER MASK IS ALLOWED.
- 8:SILKSCREEN TO BE WHITE, NON CONDUCTIVE, EPOXY INK OR EQUIVALENT.
- 9:THIS IS NOT A CONTROLLED IMPEDANCE BOARD.
- 10:DESIGNATED AREA OR INSPECTION AND TEST STAMP
- 11:ON SMD PCB MUST BE IDENTIFIED MANUFACTURER LOGO AND PCB TYPE (MEANS OF MATERIAL TYPE INDICATED ON THE YELLOW CARD DOCUMENT).
- 12:TEARDROPPING OF VIAS AND PADS ALLOWED AT PAD TO TRACE INTERSECTION TO INSURE A 2 MILS ANULAR RING AT THE JUNCTION.
- 13:REMOVE SILKSCREEN FROM SOLDERABLE SURFACES.
- 14:ALL BOARD TO BE 100% ELECTRICALLY NETLIST TESTED FOR OPENS AND ON SHORTS. APPLY TEST STAMP IN REFERENCED AREA.
- 15:THIS BOARD SHALL BE FULLY COMPLIANT WITH UL796.

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILLIMETERS			
FIGURE	FINISHED_SIZE	PLATED	QTY
A	0.3	PLATED	165
B	0.85	PLATED	2
C	0.9906	PLATED	108
D	1.0	PLATED	1
E	1.06	PLATED	44
F	1.3	PLATED	12

TOTAL HOLES: 332

* SURFACE - AIR 0 MM
L1 TOP CONDUCTOR - 20Z_COPPER 0.07112 MM

* DIELECTRIC - FR-4 1.5 MM

L2 BOTTOM CONDUCTOR - 20Z_COPPER 0.07112 MM
* SURFACE - AIR 0 MM

DESIGN_CROSS_SECTION_CHART
TOTAL THICKNESS 1.64224 MM

REVISION DATE		Description		Symbol	
STMICROELECTRONICS		DRILLING AND PROFILING		IPS8160HQ	
I&PC, MPA Group	AGRATE B. ITALY	TOLERANCE UNLESS NOTED UNIT=MM		Group	X-NUCLEO-OUT09A1
ALL RIGHTS STRICTLY RESERVED. REPRODUCTION OR ISSUE TO THIRD PARTIES IN ANY FORM WHATEVER IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM STMICROelectronics.		ISO		SCALE:	REV.
Drawn		linear	0 >10 <10 >50 <200 >200	1 : 1	02
RIGO M.		midle	±0.1 ±0.2 ±0.3 ±0.5 ±1°	Material	
Approved		accurate	±0.05 ±0.1 ±0.15 ±0.25 ±30°	Treatment and surface finishing	