









NOTES:

01_ BOARD SHALL MEET THE INSPECTION CRITERIA 18_ PROVIDE ARRAY
OF IPC-A-600, CLASS 2, CURRENT REVISION. 19_ BOARD MUST BE Ro
02_ MATERIAL: ISOLA ISPEED THICKNESS .094" +/- 10% 20_ BAKE BOARDS AT 2
03_ WEIGHT OF ALL COPPER LAYERS SHALL NOT BE LESS
0.5 OZ. PER SQUARE FOOT.
04_ IMPEDANCE REQUIREMENTS REFER TO CHART. TOLERANCE +/-10% EXCEPT AS NOTED.
05_ APPLY SOLDER MASK OVER BARE COPPER(SMBOC) IAW
IPC-SM-840, BOTH SIDES, USING LPI, COLOR GREEN
06_ FINISH: PLATE SELECTIVE HARD GOLD FINISH OF 2-10 MICRO INCHES OVER
BOTH SURFACES OF FAB WITH OVER 200 MICRO INCHES MINIMUM OF NICKEL.
07_ SILKSCREEN TOP SIDE/BOTH SIDES WITH NON-CONDUCTIVE EPOXY BASED INK.
COLOR SHALL BE WHITE A CONTRASTING INK WITH RESPECT TO SOLDER MASK COLOR
DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES.
EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE.
08_ VENDOR LOGO AND DATE CODE TO BE MADE FAR SIDE.
MAXIMUM HEIGHT .12 INCHES.

DRILL CHART: TOP to L02_GND/RF-SIG				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
44	10.0	+0.0/-10.0	PLATED	64


DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
	9.0	+0.0/-10.0	PLATED	2515
	10.0	+0.0/-10.0	PLATED	88
	40.0	+3.0/-3.0	PLATED	40
	62.0	+3.0/-3.0	PLATED	80
	150.0	+3.0/-3.0	PLATED	4
	57.0	+2.0/-2.0	NON-PLATED	4
	250.0	+3.0/-3.0	NON-PLATED	3
	63.0x32.0	+3.0/-3.0	PLATED	32

- 09_ 100% ELECTRICAL TEST REQUIRED FOR CONTINUITY. BOARD SHALL HAVE A
UL RATING OF 94V-0. UL SYMBOL AND RATING SHAL BE MARKED FAR SIDE.
- 10_ REMOVE ALL UNUSED PADS FROM INTERNAL LAYERS.
- 11_ SOLDER MASK FOLLOW GERBER DATA FOR TOP & BOTTOM SIDE.
- 12_ SOLDER MASK REGISTRATION TO BE WITHIN DIAMETRICAL TRUE POSITION
OF + / - 0.002 WITH APPLICABLE HOLE / PAD.
- 13_ 274X GERBERS/ODB++ USED FOR FAB MUST BE VERIFIED AGAINST THE PROVIDED IPC NETLIST.
- 14_ USE ARTMASTER # 1281021 REV 1.0
- 15_ DRILL SIZES IN CHART ARE CONSIDERED FINISHED SIZE.
- 16_ ALL VIA-IN-PADS TO BE COMPLETELY FILLED, PLANARIZED, SMOOTH
AND PLATED OVER ON SURFACE. USE S_{an}E_i NON-CONDUCTIVE EPOXY OR
EQUIVALENT FILL MATERIALS. MINIMUM OF .0007 TO BE PLATED ON SURFACE.
VIA-IN-PAD MUST INCLUDE WRAP REQUIREMENTS PER IPC 6012B.
- 17_ BUILD BOARDS IN A PANEL (MINIMUM 4 BOARD) BEST FIT ARRAY.
- 18_ PROVIDE ARRAY GERBER FOR ASSEMBLY. ONCE YOU HAVE THE ARRAY. PLEASE SEND TO XILINX.
- 19_ BOARD MUST BE RoHS COMPLIANT. VENDOR TO SUPPLY RoHS COMPLIANCY WITH BOARD.
- 20_ BAKE BOARDS AT 225 DEGRESS FOR 4 HOURS TO REMOVE ANY MOISTURE AFTER FABRICAITON.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1.0			

* SURFACE - AIR 0 MIL(+0/-0)
 * DIELECTRIC - CONFORMAL COAT 0.8 MIL(+0/-0)
 L1 TOP CONDUCTOR - 050Z_COPPER 2 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 L2 L02_GND/RF-SIG PLANE - 050Z_HVLP_CU 0.6 MIL(+0/-0)
 * DIELECTRIC - C_2X1067-SPLDK[745] 5 MIL(+0/-0)
 L3 L03_GND PLANE - 050Z_COPPER 0.6 MIL(+0/-0)
 * DIELECTRIC - 370_PRE_1080(66) 8.21 MIL(+0/-0)
 * DIELECTRIC - 370_CORE_1080 21 MIL(+0/-0)
 * DIELECTRIC - 370_PRE_1080(66) 5.6 MIL(+0/-0)
 * DIELECTRIC - 370_CORE_1080 21 MIL(+0/-0)
 * DIELECTRIC - 370_PRE_1080(66) 8.21 MIL(+0/-0)
 L4 L04_GND PLANE - 050Z_COPPER 0.6 MIL(+0/-0)
 * DIELECTRIC - C_2X1067-SPLDK[745] 5 MIL(+0/-0)
 L5 L05_SIG CONDUCTOR - 050Z_HVLP_CU 0.6 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 * DIELECTRIC - P_1067-SPLDK[745]2H 2.63 MIL(+0/-0)
 L6 BOTTOM PLANE - 050Z_COPPER 2 MIL(+0/-0)
 * DIELECTRIC - CONFORMAL COAT 0.8 MIL(+0/-0)
 * SURFACE - AIR 0 MIL(+0/-0)

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 92.31 MIL

UNLESS OTHERWISE SPECIFIED	SIGNATURES		DATE		<div> 2100 LOGIC DR. SAN JOSE, CA 95124 HWCP - HARDWARE & CONFIGURATION PLATFORMS</div> <div>HW-FMC-XM500</div> <div>MODULE FABRICAITON</div>				
DIMENSIONS ARE IN INCHES	DRAWN	GREG I.	06/14/18						
TOLERANCES ON;	CHECKED								
2 PL DECIMALS +/- .010	ENGRG	XXXXXX	01/25/18						
3 PL DECIMALS +/- .005	ISSUED								
ANGLES +									
FRACTIONS +									
					SIZE	FSCM NO	DWG NO	VER	REV
					D		1281021	1.0	01
					SCALE	NONE		SHEET	1 OF 1