

1. THIS DRAWING SPECIFIES THE REQUIREMENTS FOR A PRINTED WIRING BOARD IN ACCORDANCE WITH SPECIFICATION IPC-A-600 CLASS 2 (LATEST REVISION).
2. THE PWB MUST BE LEAD FREE ASSEMBLY PROCESS COMPATIBLE AND MUST BE ABLE TO HANDLE A MINIMUM OF 5 CYCLES AT 260 DEGREES CELSIUS FOR 10 SECONDS.
3. BASE MATERIAL - LAMINATE AND PREPREG SHALL MEET IPC-4101B-26, #3 or #8.
Tg - MUST BE GREATER THAN OR EQUAL TO 150 DEGREES CELSIUS.
Td - MUST BE GREATER THAN OR EQUAL TO 330 DEGREES CELSIUS.
4. COPPER FOIL WEIGHT - SEE STACKUP DETAIL 'A'
5. CHARACTERISTIC IMPEDANCE - NOT APPLICABLE
6. MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .005"/.005"
7. PLATING FINISH - BOTH SIDES ENDS (ELECTROLESS NICKEL IMMERSION GOLD):
.05080 - .232 MICRON (2.48 MICRON) OF GOLD OVER
2.540-6.350 MICRON (100-250 MICRON) OF NICKEL.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	09-29-16	Y.X.

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	8.0	+0.0/-8.0	PLATED	79
•	12.0	+2.0/-2.0	PLATED	16
•	40.0	+3.0/-3.0	PLATED	40
◻	41.0	+3.0/-3.0	PLATED	6
◻	125.0	+2.0/-2.0	NON-PLATED	4

9. SOLDERMASK - ORANGE COLOR (TAIYO OR EQUIVALENT), BOTH SIDES.
MODIFICATION OF SOLDERMASK IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM FREESCALE.

11. ELECTRICAL TEST - 100% IPCD356.

13. DRC'S MUST BE RUN ON THE GERBER BEFORE BUILDING BOARDS.

14. TEARDROPS MAYBE ADDED AT THE FBI HOUSE TO ALL SIGNAL LAYERS.

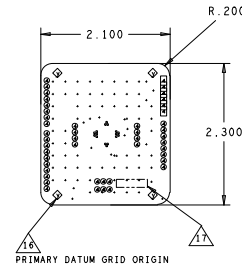
△ BASIC GRID INCREMENT AT 1:1 IS .0001.
△


18. THE PWB WILL BE MARKED AS LEAD FREE BY USE OF AN INK STAMP YES

20. ALL PLATED AND NON-PLATED THROUGH HOLES ARE TO BE DRILLED AT PRIMARY DRILL STEP.
ALL HOLE LOCATION TOLERANCES ARE TO BE $\pm .002$ IN REFERENCE TO THE PRIMARY DATUM.

21. INTENTIONAL 15 SHORTS AT
Ref Doc No 11 Net 2

SH1	INT1_A	INT1
SH2	INT2_A	INT2
SH3	SCL	SCL BRKT
SH4	SDA	SDA-BRKT
SH5	VDD 8451	VDD
SH6	VDDTIO_8451	VDD
SH7	GND	GND
SH8	SAO 0	SAO A
SH9	N16848558	INTT_A
SH10	I2C_SCL1	N16648760
SH11	I2C_SDA1	N16648760
SH12	N166483675	I2C_A
SH13	N166483675	I2C_SDA1
SH14	N16648579	I2C_SCL1
SH15	SAO A	N16666647



	LAYER 1	COMPONENT SIDE	1 oz.
	LAYER 2	SOLDER SIDE	1 oz.

DETAIL A
LAYER STACKUP
SCALE: NONE

PART NO. 170-29413			
(PURE PUBLIC INFORMATION) <input checked="" type="checkbox"/> FIND (FREESCALE INTERNAL USE ONLY) <input type="checkbox"/> FPC (FREESCALE CONFIDENTIAL PROPRIETARY)		THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FREESCALE AND SHALL NOT BE USED FOR ENGINEERING DESIGN OR REPRODUCTION OF ANY PRODUCT, IN WHOLE OR IN PART WITHOUT THE CONSENT OF FREESCALE.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DIMENSIONS < .010 ANGLES < .5° .010 .005 .003		APPROVALS _____ DATE _____ DRAWN ASWIN S 09-29-16 DESIGNED HALEN XU 09-29-16 DESIGN ENGINEER ASWIN S 09-29-16	
BREAK ALL SHOWN DIMES AND CORNERS. REMOVE DIMES. DIMENSIONS ARE NOT TO SCALE. THIS IS A 2D ORTHOGRAPHIC PROJECTION IN USE.		TITLE: PRINTED WIRING BOARD FRDMSTBC-A8451 SCALE: 1/1 DO NOT SCALE DRAWING SHEET 1 OF 1	
		SIZE: CAD FILE NAME: DWG. NO.: <input type="checkbox"/> 170-29413	REV: A