

1. THIS DRAWING SPECIFIES THE REQUIREMENTS FOR A PRINTED WIRING BOARD IN ACCORDANCE WITH SPECIFICATION IPC-601 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 160 DEGREES CELSIUS FOR 10 SECONDS.
3. BASE MATERIAL - LAMINATE AND PREPREG SHALL MEET IPC-A4101B-26, 83 or 98.
 - 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 ENG (ELECTROLESS NICKEL IMMERSION GOLD):
 - .05080 - .232 MICRON (2-8 MICROINCH) OF GOLD OVER
 - 2.540-6.350 MICRON (100-250 MICROINCH) OF NICKEL.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	12-07-16	Y. X.
	B	CHANGED U2'S PACKAGE	09-27-17	Y. X.

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	8.0	+0.0/-8.0	PLATED	130
◊	40.0	+3.0/-3.0	PLATED	55
◻	41.0	+3.0/-3.0	PLATED	6
◈	125.0	+2.0/-2.0	NON-PLATED	4

8. ALL THROUGH HOLE VIAS MAY BE PLATED SHUT.

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

10. SILKSCREEN - WHITE EPOXY INK, BOTH SIDES. NO SILK ON PADS

11. ELECTRICAL TEST - 100% IPCD356.

12. PRINTED WIRING BOARD IS TO BE INDIVIDUALLY BAGGED.

13. DRC'S MUST BE RUN ON THE GERBER BEFORE BUILDING BOARDS, UNLESS PRIOR APPROVAL IS GIVEN IN WRITING BY FREESCALE.

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

15. TWO SOLDER SAMPLES TO BE PROVIDED.

 BASIC GRID INCREMENT AT 1:1 IS .0001.

17. SUPPLIER MARKINGS - ON SOLDER SIDE ONLY, WHERE SHOWN.
- MUST BE UL RECOGNIZED AND MUST HAVE AN ID THAT CONFORMS TO UL94V-0

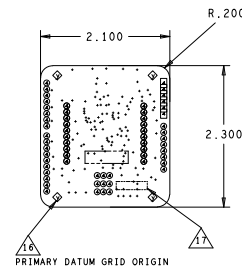
18. THE PWB WILL BE MARKED AS LEAD FREE BY USE OF AN INK STAMP ~~DO~~

19. THE PWB WILL BE MARKED AS LEAD FREE PROCESS COMPATIBLE BY USE OF AN INK STAMP (260°C)


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 SHORTS AT

Refdes	Net1	Net2
SHE1	INT1 8962 A	INT1 8962 A
SHE2	INT1 3115 A	INT1 3115 A
SHE3	RST1 21002 A	RST1 21002 A
SHE4	VDD 9862	VDD
SHE5	VDD 9862	VDD SCLK
SHE6	INT1 3115 A	INT1 3115 A
SHE7	INT1 SCL A	INT1 11002 A
SHE8	SPI CS A	SPI CS A
SHE9	INT1 8962 A	S041 8962 A
SHE10	S040 MISO A	S040 MISO A
SHE11	INT1 11002 A	INT1 11002 A
SHE12	SPI CS G A	SPI CS G A
SHE13	VDD 3115	VDD
SHE14	VDD 3115	VDD PG2
SHE15	VDD 3110	VDD
SHE16	INT1 3110	INT1 3110
SHE17	VDD 3115	VDD
SHE18	VDD 3115	VDD
SHE19	VDD 3110	VDD
SHE20	INT1 8962 A	INT1 8962 A
SHE21	I2C SCL A	N05692
SHE22	INT1 8962 A	N05692
SHE23	I2C SDA A	N05729
SHE24	INT2 21002 A	N05729
SHE25	INT1 3110	N05729
SHE26	SPI CS G A	N16663074
SHE27	SPI CS A	N16663074
SHE28	INT1 3115 A	N16663074
SHE29	INT1 3115 A	N16663074
SHE30	INT1 21002 A	N05692
SHE31	SPI CS A	N16663009
SHE32	I2C SDA A	N16663009
SHE33	S040 MISO A	N16663009
SHE34	I2C SDA A	N05672889
SHE35	I2C SDA A	N05672889
SHE36	I2C SDA A	N05672889
SHE37	I2C SDA A	N05672889
SHE38	I2C SDA A	N05672889
SHE39	I2C SDA A	N05672889
SHE40	I2C SDA A	N05672889
SHE41	I2C SDA A	N05672889
SHE42	I2C SDA A	N05672889
SHE43	I2C SDA A	N05672889
SHE44	I2C SDA A	N05672889
SHE45	I2C SDA A	N05672889
SHE46	I2C SDA A	N05672889
SHE47	I2C SDA A	N05672889
SHE48	I2C SDA A	N05672889
SHE49	I2C SDA A	N05672889
SHE50	I2C SDA A	N05672889
SHE51	I2C SDA A	N05672889
SHE52	I2C SDA A	N05672889
SHE53	I2C SDA A	N05672889
SHE54	I2C SDA A	N05672889
SHE55	I2C SDA A	N05672889
SHE56	I2C SDA A	N05672889
SHE57	I2C SDA A	N05672889
SHE58	I2C SDA A	N05672889
SHE59	I2C SDA A	N05672889
SHE60	I2C SDA A	N05672889
SHE61	I2C SDA A	N05672889
SHE62	I2C SDA A	N05672889
SHE63	I2C SDA A	N05672889
SHE64	I2C SDA A	N05672889
SHE65	I2C SDA A	N05672889
SHE66	I2C SDA A	N05672889
SHE67	I2C SDA A	N05672889
SHE68	I2C SDA A	N05672889
SHE69	I2C SDA A	N05672889
SHE70	I2C SDA A	N05672889
SHE71	I2C SDA A	N05672889
SHE72	I2C SDA A	N05672889
SHE73	I2C SDA A	N05672889
SHE74	I2C SDA A	N05672889
SHE75	I2C SDA A	N05672889
SHE76	I2C SDA A	N05672889
SHE77	I2C SDA A	N05672889
SHE78	I2C SDA A	N05672889
SHE79	I2C SDA A	N05672889
SHE80	I2C SDA A	N05672889
SHE81	I2C SDA A	N05672889
SHE82	I2C SDA A	N05672889
SHE83	I2C SDA A	N05672889
SHE84	I2C SDA A	N05672889
SHE85	I2C SDA A	N05672889
SHE86	I2C SDA A	N05672889
SHE87	I2C SDA A	N05672889
SHE88	I2C SDA A	N05672889
SHE89	I2C SDA A	N05672889
SHE90	I2C SDA A	N05672889
SHE91	I2C SDA A	N05672889
SHE92	I2C SDA A	N05672889
SHE93	I2C SDA A	N05672889
SHE94	I2C SDA A	N05672889
SHE95	I2C SDA A	N05672889
SHE96	I2C SDA A	N05672889
SHE97	I2C SDA A	N05672889
SHE98	I2C SDA A	N05672889
SHE99	I2C SDA A	N05672889
SHE100	I2C SDA A	N05672889



—| |— 0.062" THICK +/-10%

		FINISHED Cu WEIGHT
	LAYER 1 COMPONENT SIDE	1 oz.
	LAYER 2 SOLDER SIDE	1 oz.

DETAIL A
LAYER STACKUP
SCALE: NONE

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<input type="checkbox"/> COMPANY PUBLIC <input checked="" type="checkbox"/> COMPANY INTERNAL <input type="checkbox"/> COMPANY CONFIDENTIAL		APPROVALS _____ DATE _____ DRAWN _____ ASWIM S 09-27-17 DESIGNED _____ ASWIM S 09-27-17 DESIGN ENGINEER _____ ASWIM S 09-27-17		6501 WILLIAM CANNON DRIVE WEST AUSTIN, TEXAS 78735 USA PRINTED WIRING BOARD FRDM-STBC-AGMP03	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .01 .XXX .005 ✓ R8 ALL MACHINED SURFACES BREAK ALL SHARP EDGES AND CORNERS. REMOVE BURRS. DIMENSIONS SHOWN NOT TO SCALE. THESE ANGLES ORTHOGRAPHIC PROJECTION IS USED.		SIZE D	CDR FILE NAME 17A-29427	DWG. NO. FAB-29427	REV B
SCALE 1/1		DO NOT SCALE DRAWING		SHEET 1 OF 1	