NOTES (UNLESS OTHERWISE SPECIFIED):

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, 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 - NONE

6. MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .005"/.005"

7. PLATING FINISH - BOTH SIDES ENIG (ELECTROLESS NICKEL IMMERSION GOLD):
   .05080-.232 MICRON (2-8 MICROINCH) OF GOLD OVER
   2.540-6.350 MICRON (100-250 MICROINCH) OF NICKEL.

8. ALL THROUGH HOLE VIAS MAY BE PLATED SHUT.

9. SOLDERMASK - BLACK COLOR, 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. 2 SOLDER SAMPLES TO BE PROVIDED.

16. 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 (B6)

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

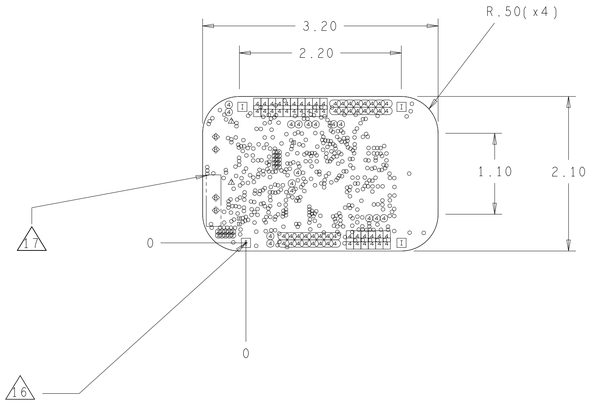
20. ALL PLATED AND NON-PLATED THROUGH HOLES ARE TO BE DRILLED AT PRIMARY DRILL STEP. ALL HOLE LOCATION TOLERANCES ARE TO BE +/-.002 IN REFERENCE TO THE PRIMARY DATUM.

21. FINISHED PCB MUST BE PANELIZED FOR ASSEMBLY ACCORDING TO CONTRACT MANUFACTURERS REQUIREMENTS. THE ADDITION OF RAILS AND .125" NON-PLATED TOOLING HOLES ARE AT THE DISCRETION OF CONTRACT MANUFACTURER.PANELIZATION MUST BE APPROVED BY CONTRACT MANUFACTURER.

22. INTENTIONAL SHORT IN J11 BETWEEN NETS KL25_SWD_CLK AND SWD_CLK_TGTMCU.
    INTENTIONAL SHORT ON J20 BETWEEN NETS P3V3_VREG AND P3V3
    INTENTIONAL SHORT ON J14 BETWEEN NETS RST_TGTMCU AND RST_TGTMCU
    5 INTENTIONAL DANGLING VIAS IN U7 AREA.

23. COPPER SHAVING IS ALLOWED IN FRONT OF PADS OF CONNECTORS J5 AND J7 IN ORDER TO KEEP A 0.010" CLEARANCE FROM THE EDGE OF THE BOARDS.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	05-04-12	R.D.R
	B	SCHEMATIC CHANGES REQUESTED BY BU	05-09-12	R.D.R
	B1	QR CODE MODIFICATION	05-11-12	R.D.R
	C	SCHEMATIC CHANGES REQUESTED BY BU	05-21-12	R.D.R
	C1	SILKSCREEN CHANGES	05-21-12	R.D.R
	C2	SILKSCREEN AND SOLDERMASK CHANGES	06-06-12	R.D.R
	D	SCHEMATIC CHANGES REQUESTED BY BU	07-10-12	R.D.R
	D1	SILKSCREEN CHANGES	10-12-12	R.D.R
	E	SCHEMATIC CHANGES PER ECO41196	01-25-13	R.D.R



PRIMARY DATUM
GRID ORIGIN

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
○	10.0	+0.0/-10.0	PLATED	455
⊠	18.0	+2.0/-2.0	PLATED	3
⑵	28.0	+2.0/-2.0	PLATED	20
⑥	40.0	+3.0/-3.0	PLATED	16
4	41.0	+3.0/-3.0	PLATED	32
④	47.0	+3.0/-3.0	PLATED	32
△	73.0	+3.0/-3.0	PLATED	2
◈	35.0	+2.0/-2.0	NON-PLATED	4
1	125.0	+3.0/-3.0	NON-PLATED	4

FINISHED Cu WEIGHT

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

DETAIL A
LAYER STACKUP
SCALE: NONE

___ PUBI (PUBLIC INFORMATION)
_X_ FIUO (FREESCALE INTERNAL USE ONLY)
___ FCP (FREESCALE CONFIDENTIAL PROPRIETARY)

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
DECIMALS ANGLES
.XX .01 .0-30'
.XXX .005
√ RMS ALL MACHINED SURFACES
BREAK ALL SHARP EDGES AND CORNERS, REMOVE BURRS.
UNDERLINED DIM. NOT TO SCALE.
THIRD ANGLE ORTHOGRAPHIC PROJECTION IS USED.

PART NO. 170-27556

APPROVALS	DATE
DRAWN MARIO VELASCO	01-25-13
CHECKED ALBERTO C.	01-25-13
DESIGN ENGINEER RAFAEL D. R.	01-25-13

FREESCALE SEMICONDUCTOR
6501 WILLIAM CANNON DRIVE WEST AUSTIN, TEXAS 78735 USA

TITLE: PRINTED WIRING BOARD
FRDM-KL25Z

SIZE	CAD FILE NAME	DWG. NO.	REV
D	LAY-27556	FAB-27556	E

SCALE 1/1 DO NOT SCALE DRAWING SHEET 1 OF 1