



- 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, B3 or B8  
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. MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .02"/.01"
  6. 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.
  7. ALL THROUGH HOLE VIAS MAY BE PLATED SHUT.
  8. SOLDERMASK - BLACK COLOR (TATYO OR EQUIVALENT), BOTH SIDES.  
MODIFICATION OF SOLDERMASK IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM FREESCALE.
  9. SILKSCREEN - WHITE EPOXY INK, BOTH SIDES. NO SILK ON PADS.
  10. ELECTRICAL TEST - 100% IPCD356.
  11. PRINTED WIRING BOARD IS TO BE INDIVIDUALLY BAGGED.
  12. DRC'S MUST BE RUN ON THE GERBER BEFORE BUILDING BOARDS,  
UNLESS PRIOR APPROVAL IS GIVEN IN WRITING BY FREESCALE.
  13. TEARDROPS MAYBE ADDED AT THE FAB HOUSE TO ALL SIGNAL LAYERS.
  14. TWO SOLDER SAMPLES TO BE PROVIDED.
  15. BASIC GRID INCREMENT AT 1:1 IS .0001.
  16. SUPPLIER MARKINGS - ON SOLDER SIDE ONLY, WHERE SHOWN.  
- MUST BE UL RECOGNIZED AND MUST HAVE AN ID THAT CONFORMS TO UL94V-0
  17. THE PWB WILL BE MARKED AS LEAD FREE BY USE OF AN INK STAMP (P6)
  18. THE PWB WILL BE MARKED AS LEAD FREE PROCESS COMPATIBLE BY USE OF AN INK STAMP (60°C)
  19. 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.
  20. 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.
  21. THE MANUFACTURE HAS THE OPTION TO ADD COPPER THEIVING ON OUTER AND INNER LAYERS.  
KEEP A MINIMUM DISTANCE OF .100" FROM ANY BOARD FEATURES.

DETAIL C  
BOARD CUTOUT IN 12 PLACES

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	ORIGINAL RELEASE	05-26-14	W.B.

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
1	24.0	+2.0/-2.0	PLATED	26
2	36.0	+3.0/-3.0	PLATED	4
3	47.0	+3.0/-3.0	PLATED	8
4	53.0	+3.0/-3.0	PLATED	80
5	60.0	+2.0/-2.0	PLATED	16
6	76.0	+3.0/-3.0	PLATED	4
7	78.0	+3.0/-3.0	PLATED	8
8	80.0	+3.0/-3.0	PLATED	9
9	125.0	+2.0/-2.0	NON-PLATED	6
10	101.0x30.0	+3.0/-3.0	PLATED	2
11	239.0x52.0	+3.0/-3.0	PLATED	2

FINISHED Cu WEIGHT

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

DETAIL A  
LAYER STACKUP  
SCALE: NONE

PART NO. 170-28399		FREESCALE	
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FREESCALE AND SHALL NOT BE USED FOR ENGINEERING DESIGN OR IN PART WITHOUT THE CONSENT OF FREESCALE		6501 WILLIAM CANNON DRIVE WEST AUSTIN, TEXAS 78735 USA	
TITLED PRINTED WIRING BOARD KIT12XS6EVM_LOAD-BOARD		REV A	
DRAWN PALANI 05-26-14		DATE 05-26-14	
CHECKED WANG BRIAN 05-26-14		DATE 05-26-14	
DESIGN ENGINEER BALA 05-26-14		DATE 05-26-14	
SCALE 1/1		DO NOT SCALE DRAWING	
SHEET 1 OF 1		SHEET 1 OF 1	