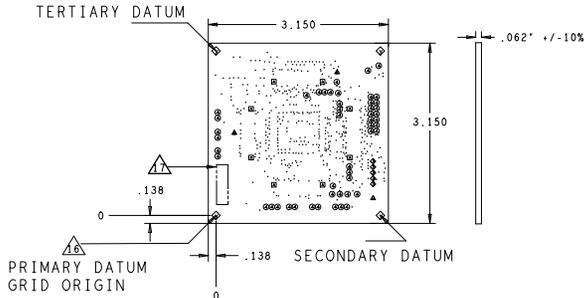


NOTES (UNLESS OTHERWISE SPECIFIED):

- THIS DRAWING SPECIFIES THE REQUIREMENTS FOR A PRINTED WIRING BOARD IN ACCORDANCE WITH SPECIFICATION IPC-A-600 CLASS 2 (LATEST REVISION).
 - THE PWB MUST BE LEAD FREE ASSEMBLY PROCESS COMPATIBLE AND MUST BE ABLE TO HANDLE A MINIMUM OF 5 CYCLES AT 240 DEGREES CELSIUS FOR 10 SECONDS.
 - BASE MATERIAL - LAMINATE AND PREPREG SHALL MEET IPC-4101B-26, R3 or R8
Tg - MUST BE GREATER THAN OR EQUAL TO 150 DEGREES CELSIUS.
Td - MUST BE GREATER THAN OR EQUAL TO 330 DEGREES CELSIUS.
 - COPPER FOIL WEIGHT - SEE STACKUP DETAIL 'A'
 - CHARACTERISTIC IMPEDANCE - SEE DETAIL 'B'
 - MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .0057"/.005"
 - PLATING FINISH - BOTH SIDES ENIG (ELECTROLESS NICKEL IMMERSION GOLD):
.0580-.232 MICRON (2-8 MICROINCH) OF GOLD OVER
2.540-6.350 MICRON (100-250 MICROINCH) OF NICKEL.
- ⚠** ALL THROUGH HOLE VIAS MAY BE PLATED SHUT.
- SOLDERMASK - GREEN COLOR (TAYO OR EQUIVALENT), BOTH SIDES.
MODIFICATION OF SOLDERMASK IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM FREESCALE.
 - SILKSCREEN - WHITE EPOXY INK, BOTH SIDES. NO SILK ON PADS.
 - ELECTRICAL TEST - 100% IPC0356.
 - PRINTED WIRING BOARD IS TO BE INDIVIDUALLY BAGGED.
 - DRC'S MUST BE RUN ON THE GERBER BEFORE BUILDING BOARDS.
UNLESS PRIOR APPROVAL IS GIVEN IN WRITING BY FREESCALE.
 - TEARDROPS MAYBE ADDED AT THE FAB HOUSE TO ALL SIGNAL LAYERS.
 - TWO SOLDER SAMPLES TO BE PROVIDED.
 - ⚠** BASIC GRID INCREMENT AT 1:1 IS .0001.
 - ⚠** SUPPLIER MARKINGS - ON SOLDER SIDE ONLY, WHERE SHOWN.
- MUST BE UL RECOGNIZED AND MUST HAVE AN ID THAT CONFORMS TO UL94V-0
 - THE PWB WILL BE MARKED AS LEAD FREE BY USE OF AN INK STAMP (LF)
 - THE PWB WILL BE MARKED AS LEAD FREE PROCESS COMPATIBLE BY USE OF AN INK STAMP (LFC)
 - 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.
 - 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.
 - THE MANUFACTURE HAS THE OPTION TO ADD COPPER THIEVING ON OUTER AND INNER LAYERS.
KEEP A MINIMUM DISTANCE OF .100" FROM ANY BOARD FEATURES.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	07-11-14	G.R.
	B	ECOS2773	08-14-14	G.R.



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	10.0	+0.0/-10.0	PLATED	479
◊	35.0	+2.0/-2.0	PLATED	5
⊙	40.0	+3.0/-3.0	PLATED	49
▲	63.0	+3.0/-3.0	PLATED	2
◻	24.0	+2.0/-1.0	NON-PLATED	8
△	93.0	+2.0/-2.0	NON-PLATED	1
⊕	125.0	+2.0/-2.0	NON-PLATED	4

FINISHED Cu WEIGHT			
	LAYER 1	L1_PS	1/2 to 1 oz.
	LAYER 2	L2_GND	1/2 oz.
	LAYER 3	L3_INT_1	1/2 oz.
	LAYER 4	L4_INT_2	1/2 oz.
	LAYER 5	L5_PWR	1/2 oz.
	LAYER 6	L6_SS	1/2 to 1 oz.

DETAIL B
IMPEDANCE REQUIREMENTS
IMPEDANCE TOLERANCE IS 10%

Layers	Single Ended	
	[W]/[H] ²	Impedance (Ohms)
L1_PS	6.3	50
L3_INT_1	5.7	50
L4_INT_2	5.7	50
L6_SS	6.3	50

DETAIL A
LAYER STACKUP
SCALE: NONE

PART NO. 170-28455		FREESCALE	
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FREESCALE AND SHALL NOT BE USED FOR ENGINEERING DESIGN OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE CONSENT OF FREESCALE.		6501 WILLIAM CANNON DRIVE WEST AUSTIN, TEXAS 78735 USA	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .010 FRACTIONS 1/16 HOLE DIA .005 HOLE DIA .010 HOLE DIA .015 HOLE DIA .020 HOLE DIA .025 HOLE DIA .030 HOLE DIA .035 HOLE DIA .040 HOLE DIA .045 HOLE DIA .050 HOLE DIA .055 HOLE DIA .060 HOLE DIA .065 HOLE DIA .070 HOLE DIA .075 HOLE DIA .080 HOLE DIA .085 HOLE DIA .090 HOLE DIA .095 HOLE DIA .100 HOLE DIA .105 HOLE DIA .110 HOLE DIA .115 HOLE DIA .120 HOLE DIA .125 HOLE DIA .130 HOLE DIA .135 HOLE DIA .140 HOLE DIA .145 HOLE DIA .150 HOLE DIA .155 HOLE DIA .160 HOLE DIA .165 HOLE DIA .170 HOLE DIA .175 HOLE DIA .180 HOLE DIA .185 HOLE DIA .190 HOLE DIA .195 HOLE DIA .200 HOLE DIA .205 HOLE DIA .210 HOLE DIA .215 HOLE DIA .220 HOLE DIA .225 HOLE DIA .230 HOLE DIA .235 HOLE DIA .240 HOLE DIA .245 HOLE DIA .250 HOLE DIA .255 HOLE DIA .260 HOLE DIA .265 HOLE DIA .270 HOLE DIA .275 HOLE DIA .280 HOLE DIA .285 HOLE DIA .290 HOLE DIA .295 HOLE DIA .300 HOLE DIA .305 HOLE DIA .310 HOLE DIA .315 HOLE DIA .320 HOLE 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