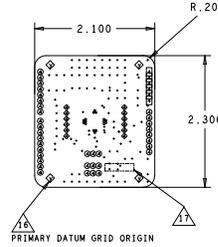


NOTES (UNLESS OTHERWISE SPECIFIED):

- 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 260 DEGREES CELSIUS FOR 10 SECONDS.
 - BASE MATERIAL - LAMINATE AND PREPREG SHALL MEET IPC-4101B-26, 83 or 98
T_g - MUST BE GREATER THAN OR EQUAL TO 150 DEGREES CELSIUS.
T_d - MUST BE GREATER THAN OR EQUAL TO 330 DEGREES CELSIUS.
 - COPPER FOIL WEIGHT - SEE STACKUP DETAIL 'A'
 - CHARACTERISTIC IMPEDANCE - NOT APPLICABLE
 - MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .005"/.005"
 - PLATING FINISH - BOTH SIDES ENIG (ELECTROLESS NICKEL IMMERSION GOLD):
.0500-.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 - ORANGE COLOR (TATOY 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% IPCD356.
 - 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 (66)
 - THE PWB WILL BE MARKED AS LEAD FREE PROCESS COMPATIBLE BY USE OF AN INK STAMP (660)
 - 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.
 - INTENTIONAL SHORTS AT
SPI_CLK & I2C_SCL
N16648625 & SPI_CLK
N16648579 & I2C_SCL0
N16648760 & I2C_SCL1
N16648575 & I2C_SDA0
N16648539 & I2C_SDA
N16648539 & SPI_MOS1
I2C_SDA1 & N16648780
RST_OP10 & N16648920
RST_8471A & RST_8471
VDDIO_8471 & VDD
VDD_8471 & VDD
N16649588 & SPI_MISO_A
N16649588 & SPI_MISO
N16648498 & SPI_CS_A
SPI_CS & SPI_CS_A
NC2_C & NC2
NC1_C & NC1
INT2_SPI_ACCEL & INT2_SPI_ACCEL_A
N1666001 & INT2_SPI_ACCEL
INT1_SPI_ACCEL & INT1_SPI_ACCEL_A
N16648558 & INT1_SPI_ACCEL

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	10-24-15	Y.X.

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	8.0	+0.0/-8.0	PLATED	109
•	12.0	+2.0/-2.0	PLATED	16
⊙	40.0	+3.0/-3.0	PLATED	35
⊠	41.0	+3.0/-3.0	PLATED	6
◆	45.0	+3.0/-3.0	PLATED	12
◇	125.0	+2.0/-2.0	NON-PLATED	4



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

PART NO. 170-28984		FREESCALE	
<input type="checkbox"/> PART (PUBLIC INFORMATION) <input checked="" type="checkbox"/> F150 (FREESCALE INTERNAL USE ONLY) <input type="checkbox"/> FOP (FREESCALE CONFIDENTIAL PROPRIETARY)		THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO FREESCALE AND SHALL NOT BE USED FOR ENGINEERING DESIGN PURPOSES OR MANUFACTURE IN WHOLE OR IN PART WITHOUT THE CONSENT OF FREESCALE.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .500 .625 .750 .875 1.000 FRACTIONS 1/16 1/8 3/16 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 12 12 1/4 12 1/2 15 15 1/4 15 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 24 24 1/4 24 1/2 30 30 1/4 30 1/2 36 36 1/4 36 1/2 48 48 1/4 48 1/2 60 60 1/4 60 1/2 72 72 1/4 72 1/2 96 96 1/4 96 1/2 120 120 1/4 120 1/2 150 150 1/4 150 1/2 180 180 1/4 180 1/2 240 240 1/4 240 1/2 300 300 1/4 300 1/2 360 360 1/4 360 1/2 480 480 1/4 480 1/2 600 600 1/4 600 1/2 720 720 1/4 720 1/2 960 960 1/4 960 1/2 1200 1200 1/4 1200 1/2 1500 1500 1/4 1500 1/2 1800 1800 1/4 1800 1/2 2400 2400 1/4 2400 1/2 3000 3000 1/4 3000 1/2 3600 3600 1/4 3600 1/2 4800 4800 1/4 4800 1/2 6000 6000 1/4 6000 1/2 7200 7200 1/4 7200 1/2 9600 9600 1/4 9600 1/2 12000 12000 1/4 12000 1/2 15000 15000 1/4 15000 1/2 18000 18000 1/4 18000 1/2 24000 24000 1/4 24000 1/2 30000 30000 1/4 30000 1/2 36000 36000 1/4 36000 1/2 48000 48000 1/4 48000 1/2 60000 60000 1/4 60000 1/2 72000 72000 1/4 72000 1/2 96000 96000 1/4 96000 1/2 120000 120000 1/4 120000 1/2 150000 150000 1/4 150000 1/2 180000 180000 1/4 180000 1/2 240000 240000 1/4 240000 1/2 300000 300000 1/4 300000 1/2 360000 360000 1/4 360000 1/2 480000 480000 1/4 480000 1/2 600000 600000 1/4 600000 1/2 720000 720000 1/4 720000 1/2 960000 960000 1/4 960000 1/2 1200000 1200000 1/4 1200000 1/2 1500000 1500000 1/4 1500000 1/2 1800000 1800000 1/4 1800000 1/2 2400000 2400000 1/4 2400000 1/2 3000000 3000000 1/4 3000000 1/2 3600000 3600000 1/4 3600000 1/2 4800000 4800000 1/4 4800000 1/2 6000000 6000000 1/4 6000000 1/2 7200000 7200000 1/4 7200000 1/2 9600000 9600000 1/4 9600000 1/2 12000000 12000000 1/4 12000000 1/2 15000000 15000000 1/4 15000000 1/2 18000000 18000000 1/4 18000000 1/2 24000000 24000000 1/4 24000000 1/2 30000000 30000000 1/4 30000000 1/2 36000000 36000000 1/4 36000000 1/2 48000000 48000000 1/4 48000000 1/2 60000000 60000000 1/4 60000000 1/2 72000000 72000000 1/4 72000000 1/2 96000000 96000000 1/4 96000000 1/2 120000000 120000000 1/4 120000000 1/2 150000000 150000000 1/4 150000000 1/2 180000000 180000000 1/4 180000000 1/2 240000000 240000000 1/4 240000000 1/2 300000000 300000000 1/4 300000000 1/2 360000000 360000000 1/4 360000000 1/2 480000000 480000000 1/4 480000000 1/2 600000000 600000000 1/4 600000000 1/2 720000000 720000000 1/4 720000000 1/2 960000000 960000000 1/4 960000000 1/2 1200000000 1200000000 1/4 1200000000 1/2 1500000000 1500000000 1/4 1500000000 1/2 1800000000 1800000000 1/4 1800000000 1/2 2400000000 2400000000 1/4 2400000000 1/2 3000000000 3000000000 1/4 3000000000 1/2 3600000000 3600000000 1/4 3600000000 1/2 4800000000 4800000000 1/4 4800000000 1/2 6000000000 6000000000 1/4 6000000000 1/2 7200000000 7200000000 1/4 7200000000 1/2 9600000000 9600000000 1/4 9600000000 1/2 12000000000 12000000000 1/4 12000000000 1/2 15000000000 15000000000 1/4 15000000000 1/2 18000000000 18000000000 1/4 18000000000 1/2 24000000000 24000000000 1/4 24000000000 1/2 30000000000 30000000000 1/4 30000000000 1/2 36000000000 36000000000 1/4 36000000000 1/2 48000000000 48000000000 1/4 48000000000 1/2 60000000000 60000000000 1/4 60000000000 1/2 72000000000 72000000000 1/4 72000000000 1/2 96000000000 96000000000 1/4 96000000000 1/2 120000000000 120000000000 1/4 120000000000 1/2 150000000000 150000000000 1/4 150000000000 1/2 180000000000 180000000000 1/4 180000000000 1/2 240000000000 240000000000 1/4 240000000000 1/2 300000000000 300000000000 1/4 300000000000 1/2 360000000000 360000000000 1/4 360000000000 1/2 480000000000 480000000000 1/4 480000000000 1/2 600000000000 600000000000 1/4 600000000000 1/2 720000000000 720000000000 1/4 720000000000 1/2 960000000000 960000000000 1/4 960000000000 1/2 1200000000000 1200000000000 1/4 1200000000000 1/2 1500000000000 1500000000000 1/4 1500000000000 1/2 1800000000000 1800000000000 1/4 1800000000000 1/2 2400000000000 2400000000000 1/4 2400000000000 1/2 3000000000000 3000000000000 1/4 3000000000000 1/2 3600000000000 3600000000000 1/4 3600000000000 1/2 4800000000000 4800000000000 1/4 4800000000000 1/2 6000000000000 6000000000000 1/4 6000000000000 1/2 7200000000000 7200000000000 1/4 7200000000000 1/2 9600000000000 9600000000000 1/4 9600000000000 1/2 12000000000000 12000000000000 1/4 12000000000000 1/2 15000000000000 15000000000000 1/4 15000000000000 1/2 18000000000000 18000000000000 1/4 18000000000000 1/2 24000000000000 24000000000000 1/4 24000000000000 1/2 30000000000000 30000000000000 1/4 30000000000000 1/2 36000000000000 36000000000000 1/4 36000000000000 1/2 48000000000000 48000000000000 1/4 48000000000000 1/2 60000000000000 60000000000000 1/4 60000000000000 1/2 72000000000000 72000000000000 1/4 72000000000000 1/2 96000000000000 96000000000000 1/4 96000000000000 1/2 120000000000000 120000000000000 1/4 120000000000000 1/2 150000000000000 150000000000000 1/4 150000000000000 1/2 180000000000000 180000000000000 1/4 180000000000000 1/2 240000000000000 240000000000000 1/4 240000000000000 1/2 300000000000000 300000000000000 1/4 300000000000000 1/2 360000000000000 360000000000000 1/4 360000000000000 1/2 480000000000000 480000000000000 1/4 480000000000000 1/2 600000000000000 600000000000000 1/4 600000000000000 1/2 720000000000000 720000000000000 1/4 720000000000000 1/2 960000000000000 960000000000000 1/4 960000000000000 1/2 1200000000000000 1200000000000000 1/4 1200000000000000 1/2 1500000000000000 1500000000000000 1/4 1500000000000000 1/2 1800000000000000 1800000000000000 1/4 1800000000000000 1/2 2400000000000000 2400000000000000 1/4 2400000000000000 1/2 3000000000000000 3000000000000000 1/4 3000000000000000 1/2 3600000000000000 3600000000000000 1/4 3600000000000000 1/2 4800000000000000 4800000000000000 1/4 4800000000000000 1/2 6000000000000000 6000000000000000 1/4 6000000000000000 1/2 7200000000000000 7200000000000000 1/4 7200000000000000 1/2 9600000000000000 9600000000000000 1/4 9600000000000000 1/2 12000000000000000 12000000000000000 1/4 12000000000000000 1/2 15000000000000000 15000000000000000 1/4 15000000000000000 1/2 18000000000000000 18000000000000000 1/4 18000000000000000 1/2 24000000000000000 24000000000000000 1/4 24000000000000000 1/2 30000000000000000 30000000000000000 1/4 30000000000000000 1/2 36000000000000000 36000000000000000 1/4 36000000000000000 1/2 48000000000000000 48000000000000000 1/4 48000000000000000 1/2 60000000000000000 60000000000000000 1/4 60000000000000000 1/2 72000000000000000 72000000000000000 1/4 72000000000000000 1/2 96000000000000000 96000000000000000 1/4 96000000000000000 1/2 120000000000000000 120000000000000000 1/4 120000000000000000 1/2 150000000000000000 150000000000000000 1/4 150000000000000000 1/2 180000000000000000 180000000000000000 1/4 180000000000000000 1/2 240000000000000000 240000000000000000 1/4 240000000000000000 1/2 300000000000000000 300000000000000000 1/4 300000000000000000 1/2 360000000000000000 360000000000000000 1/4 360000000000000000 1/2 480000000000000000 480000000000000000 1/4 480000000000000000 1/2 600000000000000000 600000000000000000 1/4 600000000000000000 1/2 720000000000000000 720000000000000000 1/4 720000000000000000 1/2 960000000000000000 960000000000000000 1/4 960000000000000000 1/2 1200000000000000000 1200000000000000000 1/4 1200000000000000000 1/2 1500000000000000000 1500000000000000000 1/4 1500000000000000000 1/2 1800000000000000000 1800000000000000000 1/4 1800000000000000000 1/2 2400000000000000000 2400000000000000000 1/4 2400000000000000000 1/2 3000000000000000000 3000000000000000000 1/4 3000000000000000000 1/2 3600000000000000000 3600000000000000000 1/4 3600000000000000000 1/2 4800000000000000000 4800000000000000000 1/4 4800000000000000000 1/2 6000000000000000000 6000000000000000000 1/4 6000000000000000000 1/2 7200000000000000000 7200000000000000000 1/4 7200000000000000000 1/2 9600000000000000000 9600000000000000000 1/4 9600000000000000000 1/2 12000000000000000000 12000000000000000000 1/4 12000000000000000000 1/2 15000000000000000000 15000000000000000000 1/4 15000000000000000000 1/2 18000000000000000000 18000000000000000000 1/4 18000000000000000000 1/2 24000000000000000000 24000000000000000000 1/4 24000000000000000000 1/2 30000000000000000000 30000000000000000000 1/4 30000000000000000000 1/2 36000000000000000000 36000000000000000000 1/4 36000000000000000000 1/2 48000000000000000000 48000000000000000000 1/4 48000000000000000000 1/2 60000000000000000000 60000000000000000000 1/4 60000000000000000000 1/2 72000000000000000000 72000000000000000000 1/4 72000000000000000000 1/2 96000000000000000000 96000000000000000000 1/4 96000000000000000000 1/2 120000000000000000000 120000000000000000000 1/4 120000000000000000000 1/2 150000000000000000000 150000000000000000000 1/4 150000000000000000000 1/2 180000000000000000000 180000000000000000000 1/4 180000000000000000000 1/2 240000000000000000000 240000000000000000000 1/4 240000000000000000000 1/2 300000000000000000000 300000000000000000000 1/4 300000000000000000000 1/2 360000000000000000000 360000000000000000000 1/4 360000000000000000000 1/2 480000000000000000000 480000000000000000000 1/4 480000000000000000000 1/2 600000000000000000000 600000000000000000000 1/4 600000000000000000000 1/2 720000000000000000000 720000000000000000000 1/4 720000000000000000000 1/2 960000000000000000000 960000000000000000000 1/4 960000000000000000000 1/2 1200000000000000000000 1200000000000000000000 1/4 1200000000000000000000 1/2 1500000000000000000000 1500000000000000000000 1/4 1500000000000000000000 1/2 1800000000000000000000 1800000000000000000000 1/4 1800000000000000000000 1/2 2400000000000000000000 2400000000000000000000 1/4 2400000000000000000000 1/2 3000000000000000000000 3000000000000000000000 1/4 3000000000000000000000 1/2 3600000000000000000000 3600000000000000000000 1/4 3600000000000000000000 1/2 4800000000000000000000 4800000000000000000000 1/4 48000			