











FOR REFERENCE ONLY: FOR DETAILED MECHANICAL DATA SEE DOCUMENT: PAP (S\_PQFP\_G64)

| TEXAS INSTRUMENTS                  |                        | COPPER LAYER NAME |     | SILKSCREEN    |     | SOLDER MASK    |     | PASTE MASK  |     | ASSEMBLY |     | FAB DRAWING |
|------------------------------------|------------------------|-------------------|-----|---------------|-----|----------------|-----|-------------|-----|----------|-----|-------------|
|                                    |                        | TOP               | BOT | TOP           | BOT | TOP            | BOT | TOP         | BOT | TOP      | BOT |             |
| BOARD NO:                          | REV:                   |                   |     |               |     |                |     |             |     |          |     | FB          |
| bq76PL536PAP<br>Foot Print Drawing |                        |                   |     |               |     |                |     |             |     |          |     |             |
| DATE:                              | FILENAME:              | ENGINEER:         |     | PCB DESIGNER: |     | MODIFIED DATE: |     | TIME STAMP: |     |          |     |             |
| 07/06/2010                         | 536 Footprint PADS.PCB | Gordon Varney     |     |               |     |                |     |             |     |          |     |             |

| FABRICATION CHART                                                                                                                    |                                                                                                                                                              |                                                                                                       |                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| FINISHED THICKNESS                                                                                                                   | SILKSCREEN                                                                                                                                                   | SOLDERMASK                                                                                            | FINISHED COPPER WEIGHT                                                                                                                                |
| <input type="checkbox"/> 0.031<br><input type="checkbox"/> 0.062<br><input type="checkbox"/> 0.093<br><input type="checkbox"/> 0.125 | <input type="checkbox"/> LAYER 1<br><input type="checkbox"/> LAYER 2<br><input type="checkbox"/> NONE                                                        | <input type="checkbox"/> LAYER 1<br><input type="checkbox"/> LAYER 2<br><input type="checkbox"/> NONE | <input type="checkbox"/> 1 OZ.<br><input type="checkbox"/> 2 OZ.<br><input type="checkbox"/> OTHER _____                                              |
| DESIGN                                                                                                                               | TRACE/GAP SPACING                                                                                                                                            |                                                                                                       | LAYER COUNT                                                                                                                                           |
| <input type="checkbox"/> SMD<br><input type="checkbox"/> THRU-HOLE<br><input type="checkbox"/> MIX                                   | <input type="checkbox"/> 0.010/0.010<br><input type="checkbox"/> 0.008/0.007<br><input type="checkbox"/> 0.006/0.006<br><input type="checkbox"/> OTHER _____ |                                                                                                       | <input type="checkbox"/> SINGLE SIDED<br><input type="checkbox"/> 2 LAYER<br><input type="checkbox"/> 4 LAYER<br><input type="checkbox"/> OTHER _____ |

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
ALL MATERIALS, INCLUDING BUT NOT LIMITED TO BASE LAMINATE, BONDING MATERIALS AND SOLDERMASK COATINGS FORWARD THE FINISHED PRINTED CIRCUIT BOARD SHALL MEET UL-796 REQUIREMENTS AND BE ROHS COMPLIANT AND HAVE A FLAMMABILITY OF UL94V-0
- BASE LAMINATE:  
PLASTIC SHEET, LAMINATED METAL GLASS, ONE OR TWO SIDES.  
BASE MATERIAL: NEA TYPE FR-4 OR EQUIVALENT, 40/75 = 90 Deg C  
OR HIGHER MINIMUM COMPOSITION TEMP (Tg) OF 340 Deg C.  
GLASS EPOXY RESIN, COPPER-CLAD IN ACCORDANCE WITH 2 LAYER STACK-UP, COMPLIANT WITH LEAD FREE PROCESS
- SOLDERMASK:  
SOLDERMASK OVER BASE COPPER (COPPER) USING LIQUID PHOTO-SENSIBLE SOLDERMASK IN ACCORDANCE WITH IPC-59-440. COLOR GREEN, UNLESS SOLDERMASK ADJUSTMENTS TO FACILITATE PCB FAB OR ASSEMBLY ARE ALLOWED PROVIDED NO DEFECTS ARE CREATED AS A RESULT.
- PLATING:  
HOLES REQUIRING PLATING SHALL HAVE .001 MIN THICK COPPER PLATE
- FINISH:  
PLATE WITH ROHS COMPLIANT, IMMERSION SILVER PREFERRED, OR Sn/Ag/Cu.  
WITH PWA FLUX, 0.0005" +/- 0.0005" THICK MIN ALL EXPOSED AREAS  
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- LEGEND:  
IF REQUIRED, SILKSCREEN (LEGENDS) WITH WHITE NON-CONDUCTIVE EPOXY INK.
- WARNINGS:  
BOARD MUST BEAR VENDORS IDENTIFICATION CODE (ETCH OR WHITE NON-CONDUCTIVE INK) LOCATION OPTIONAL.
- WORKMANSHIP:  
BOARD IS TO BE MANUFACTURED PER IPC-A-600 CLASS 2 REQUIREMENTS OR BETTER
- DOCUMENTATION:  
PCB VENDOR IS REQUIRED TO RETURN ANY AND ALL DOCUMENTS SUPPLIED OR ULTIMATELY PURCHASED BY TEXAS INSTRUMENTS UPON COMPLETION OF PURCHASE ORDER
- DRAWING SIZES:  
HOLE DIAMETERS SHOWN ARE FINISHED SIZES AFTER PLATING UNLESS OTHERWISE NOTED.
- TOLERANCES:  
UNLESS OTHERWISE SPECIFIED PCB TOLERANCES SHALL BE:  
PCB THICKNESS TOLERANCE = +/- .004 RELATIVE TO FINISHED THICKNESS, MEASURED FROM COPPER TO COPPER.  
PCB DIMENSIONAL TOLERANCE = +/- .0005 INCHES RELATIVE TO BOARD PROFILES AND DRILL TO EXISE DIMENSIONS.  
FINISHED HOLE DIAMETERS SHALL BE +/- .0005 INCHES RELATIVE THE DRILL TABLE DIMENSIONS.
- PANEL BORDER:  
ANY METAL IN BORDER AREA INCLUDING PART NUMBER, DATECODE AND/OR REVISION LETTERS MUST BE COVERED WITH SOLDERMASK.
- PROCESS CHANGES:  
NO DIMENSIONAL, MATERIAL, OR PROCESS CHANGES ARE ALLOWED WITHOUT PRIOR EXPLICIT WRITTEN PERMISSION FROM TEXAS INSTRUMENTS.