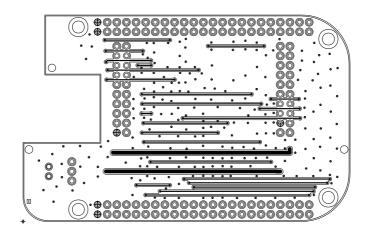
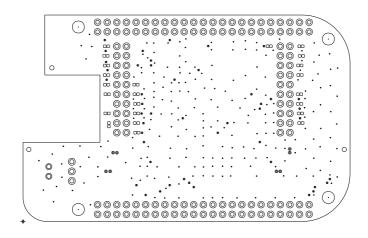


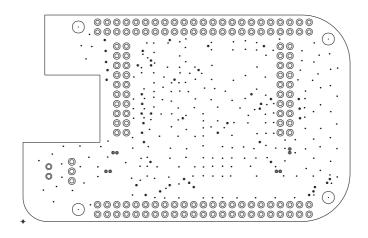
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Top Layer	
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 1 of 10



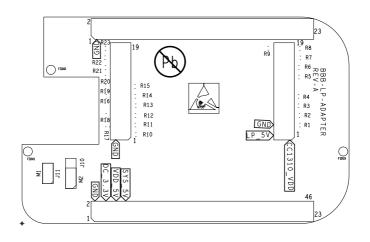
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	tom Layer :NOI	B o t
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 4 of 10



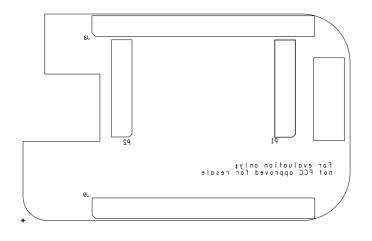
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Soldermas	k - Тор
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 5 of 10



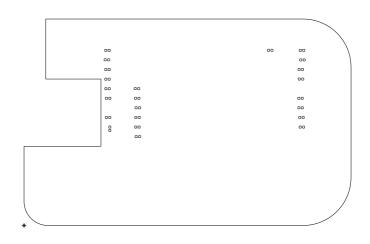
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Soldermas	<-Bottom
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 6 of 10



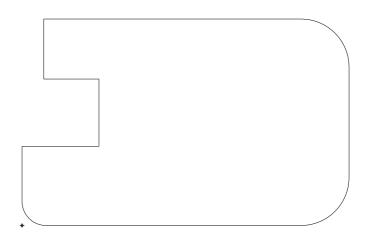
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Silkscree	n - T o p
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 7 of 10



CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	en-Bottom : NOI	Silkscre
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 8 of 10



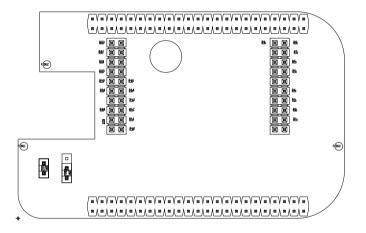
CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Pastemask	- Тор
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 9 of 10



CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Pastemask	-Bottom
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 10 of 10

ASSEMBLY NOTES:

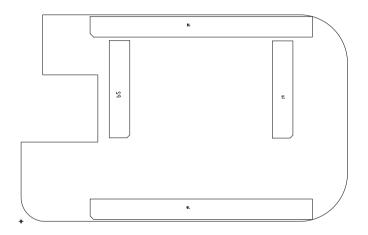
- 1. Connectors P1 and P2 should be mounted on Bottom side. The pins of the connectors should appear on the TOP side
- 2. Connectors J8 and J9 should be mounted on Bottom side. The long pins of the connectors should appear on the BOTTOM side



CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Assembly-	Тор
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 1 of 2

ASSEMBLY NOTES:

- 1. Connectors P1 and P2 should be mounted on Bottom side. The pins of the connectors should appear on the TOP side
- 2. Connectors J8 and J9 should be mounted on Bottom side. The long pins of the connectors should appear on the BOTTOM side



CUSTOMER: Texas Instruments			
BOARD NAME: BBB-LP ADAPTER	LAYER DESCRIPT	ION: Assembly-I	Bottom
PROJECT NUMBER: WCS013	BOARD REV:	RELEASE DATE: 2016-09-29	SHEET NUMBER: 2 of 2

FAB NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.
- 2. THE PWB SHALL BE FABRICATED TO IPC-6012 CLASS 2 AND WORKMANSHIP SHALL CONFORM to IPC-A-600, CLASS 2. CURRENT REVISIONS.

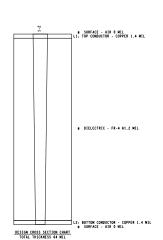
- 5. OVERALL BOARD THICKNESS TO BE 064 N+/- 005*
 AND APPLIES AFTER ALL LAWINATION AND FLATING PROCESSES, MEASURED FROM COPPER TO COPPER.

 6. MAX. WARP & TWIST TO BE .0075 PER INCH.

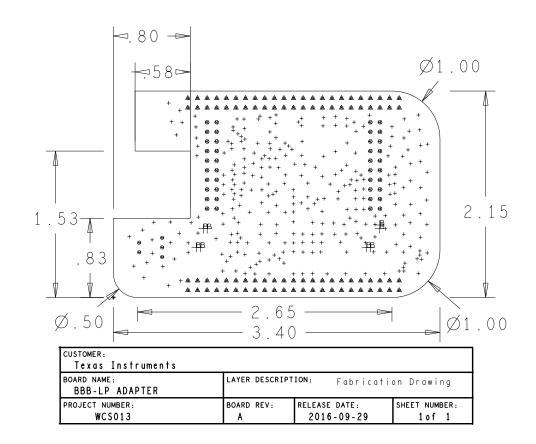
 7. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.

PROCESS NOTES:

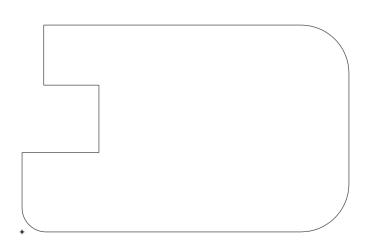
- APPLY LPI SOLDERMASK OVER BARE COPPER O SMOBS , HE CURRENT REV. CLASS , HE COPPER REV. CLAS
- 2. PLATE ALL EXPOSED AREAS WITH ELECTROLESS NICKEL IMMERSION GOLD. NICKEL:100 MICRO-INCHES MIN. GOLD:2-8 MICROINCHES MIN.
- SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS FABRICATION TYNDOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS.
- 4. APPLY NON-CONDUCTIVE LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK.
- 5. ALL VIAS ARE TENTED.



DRILL CHART: TOP to BOTTOM				
	ALL UN	ITS ARE IN MILS		
FIGURE	SIZE	TOLERANCE	PLATED	QTY
+	10.0	+ 3 . 0 / - 3 . 0	PLATED	280
#	15.0	+ 3 . 0 / - 3 . 0	PLATED	8
A	39.37	+ 3 . 0 / - 3 . 0	PLATED	92
•	41.34	+ 3 . 0 / - 3 . 0	PLATED	40
9	43.31	+ 3 . 0 / - 3 . 0	PLATED	5
+	125.0	+ 3 . 0 / - 3 . 0	PLATED	4



ART FILM - BOARD-OUTLINE



IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ('TI") reference designs are solely intended to assist designers ("Designer(s)") who are developing systems that incorporate TI products. TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.

Tl's provision of reference designs and any other technical, applications or design advice, quality characterization, reliability data or other information or services does not expand or otherwise alter Tl's applicable published warranties or warranty disclaimers for Tl products, and no additional obligations or liabilities arise from Tl providing such reference designs or other items.

TI reserves the right to make corrections, enhancements, improvements and other changes to its reference designs and other items.

Designer understands and agrees that Designer remains responsible for using its independent analysis, evaluation and judgment in designing Designer's systems and products, and has full and exclusive responsibility to assure the safety of its products and compliance of its products (and of all TI products used in or for such Designer's products) with all applicable regulations, laws and other applicable requirements. Designer represents that, with respect to its applications, it has all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. Designer agrees that prior to using or distributing any systems that include TI products, Designer will thoroughly test such systems and the functionality of such TI products as used in such systems. Designer may not use any TI products in life-critical medical equipment unless authorized officers of the parties have executed a special contract specifically governing such use. Life-critical medical equipment is medical equipment where failure of such equipment would cause serious bodily injury or death (e.g., life support, pacemakers, defibrillators, heart pumps, neurostimulators, and implantables). Such equipment includes, without limitation, all medical devices identified by the U.S. Food and Drug Administration as Class III devices and equivalent classifications outside the U.S.

Designers are authorized to use, copy and modify any individual TI reference design only in connection with the development of end products that include the TI product(s) identified in that reference design. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of the reference design or other items described above may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS AND OTHER ITEMS DESCRIBED ABOVE ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY DESIGNERS AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS AS DESCRIBED IN A TI REFERENCE DESIGN OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Tl's standard terms of sale for semiconductor products (http://www.ti.com/sc/docs/stdterms.htm) apply to the sale of packaged integrated circuit products. Additional terms may apply to the use or sale of other types of TI products and services.

Designer will fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of Designer's non-compliance with the terms and provisions of this Notice.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265 Copyright © 2016, Texas Instruments Incorporated