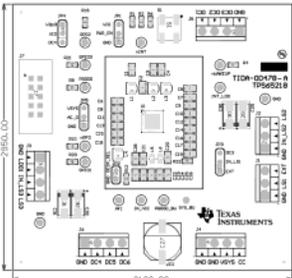


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<p>222 These assemblies are ESD sensitive. ESD precautions shall be observed.</p> <p>223 These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.</p> <p>224 These assemblies must comply with workmanship standards IPC-A610 Class 2, unless otherwise specified.</p>																																																																	
																																																																	
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<p>PCB MANUFACTURING INFORMATION: BOARD NO. 300401, CORREV. A, SUN 300401, DATE 03/20/07</p>																																																																	
<p>TEXAS INSTRUMENTS (TI) and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. TI and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. TI and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.</p>																																																																	
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<p>PROJECT TITLE: Altera MAX 10 FPGA Power Reference Design</p> <p>DESIGNED FOR: Public Release</p> <p>FILE NAME: T10H0607_PcbDoc</p> <p>DESIGNED BY: JI ENGLIN</p> <p>DATE: 03/20/07 10:58:14</p> <p>SCALE: 0,70</p>																																																																	
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B					B
C					C
D					D

COMPONENTS MARKED 'DNP' SHOULD NOT BE ORDERED. TO CHANGE 'DNP' STATUS, CONTACT YOUR BOARD MANUFACTURER.

ASSEMBLY VARIANT: [No Variations]

Layer Stack Up Detail for: HALIC00A.PcbDoc			
Layer	Material	Thickness	Notes
Top Solder Paste	0.0750	2.0001	Solder Paste
Top Layer	0.0750	2.0001	FR-4
Internal Layer	0.0813	2.0001	FR-4
Middle Layer	0.0813	2.0001	FR-4
Bottom Layer	0.0813	2.0001	FR-4
Bottom Solder Paste	0.0750	2.0001	Solder Paste

DESIGN INFORMATION	
MIN. TRACK WIDTH:	6 MIL
MIN. CLEARANCE:	0.27mm
MIN. VIA PAD SIZE:	24 MIL
MINIMUM ANNUAL RING 0.05mm (2MIL) EXTERNAL PER IPC-D-275 CLASS 2 LEVEL C	
REGISTRATION TOLERANCES METAL +/- 0.05 MIL HOLES +/- 0.3 MIL	
MATERIAL: <input type="checkbox"/> FR-408 <input checked="" type="checkbox"/> FR-4 High Tg <input type="checkbox"/> OTHER	
THICKNESS: <input checked="" type="checkbox"/> 62 MIL (1.6mm) +/- 10% <input type="checkbox"/> OTHER	
TOLERANCE: <input checked="" type="checkbox"/> ANSI IPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/-	
BOW & TWIST: <input checked="" type="checkbox"/> ANSIPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/-	
DRILLING REFERENCE: <input checked="" type="checkbox"/> AS SHOWN <input checked="" type="checkbox"/> NO DRILL FILES	
PTH MIN COPPER THICKNESS: <input checked="" type="checkbox"/> 1MIL <input type="checkbox"/> OTHER	
BOARD FINISH: <input checked="" type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM	
SILKSCREEN COLOR: <input checked="" type="checkbox"/> WHITE <input type="checkbox"/> OTHER	
SOLDER RESET COLOR: <input type="checkbox"/> GREEN <input checked="" type="checkbox"/> BLUE <input type="checkbox"/> OTHER	
SURFACE FINISH: <input checked="" type="checkbox"/> IMMERSION GOLD (ENIG) <input type="checkbox"/> ENMG	
<input type="checkbox"/> MIN. TIN/SILVER OR GOLD <input type="checkbox"/> OTHER	
ARRAY/PANEL: <input type="checkbox"/> CUT AND TRIM FOR MECH LAYER 1 <input checked="" type="checkbox"/> V-Score	
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PORTS TO MEET OR EXCEED THE REQUIREMENTS OF:	
<input checked="" type="checkbox"/> ANSIPC-4-ROOF CLASS -> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3	
<input checked="" type="checkbox"/> UL 94V-0 <input checked="" type="checkbox"/> RoHS <input type="checkbox"/> OTHER PER ORDER	
ADDITIONAL REQUIREMENTS: MICROSECTION: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
BARE BOARD ELEC. TEST: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> PER ORDER	
MANUFACTURERS UL: <input type="checkbox"/> RAL <input type="checkbox"/> METAL <input checked="" type="checkbox"/> SILK	

PROJECT TITLE: Altera MAX 10 FPGA Power Reference Design	
DESIGNED FOR: Public Release	
FILE NAME: TID00607.PcbDoc	DESIGNED BY: TI, ENGLN00Y
SCALE: 0.70	DATE: 14_03_07 09:28

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B					B
C					C
D					D

Layer Stack Up Detail for: HAL100A.PcbDoc

Layer	Material	Thickness	Notes
Top Solder Paste	0.0750	2.941	Solder Paste
Top Layer	0.0750	2.941	FR-4
Internal Layer	0.0750	2.941	FR-4
Middle Layer	0.0750	2.941	FR-4
Bottom Layer	0.0750	2.941	FR-4
Bottom Solder Paste	0.0750	2.941	Solder Paste

DESIGN INFORMATION

MIN. TRACK WIDTH: 6 MIL
 MIN. CLEARANCE: 0.27mm
 MIN. VIA PAD SIZE: 24 MIL
 MINIMUM ANNUULAR RING 0.05mm (2ML) EXTERNAL
 PER IPC-D-275 CLASS 2 LEVEL C
 REGISTRATION TOLERANCES METAL +/- 0.05 MIL HOLES +/- 0.03 MIL

MATERIAL:
 FR-408 FR-4 High Tg OTHER

THICKNESS: 62 MIL (1.6mm) +/- 10% OTHER

TOLERANCE: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

BOW & TWIST: ANSI IPC-6012 TYPE 3 CLASS 2
 OTHER +/-

DRAWING:
 REFERENCE: AS SHOWN NO DRILL FILES
 PTH MIN COPPER THICKNESS: 1ML OTHER

BOARD FINISH:
 SILKSCREEN: TOP BOTTOM
 SILKSCREEN COLOR: WHITE OTHER

SOLDER RESIST COLOR:
 GREEN BLUE OTHER

SURFACE FINISH: IMMERSION GOLD (ENIG) ENERP
 MIN. TIN/SILVER OR GOLD OTHER

ARRAY/PANEL: CUT AND TRIM FOR MECH LAYER 1
 NO ROUTE V SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL POBS TO MEET OR EXCEED THE REQUIREMENTS OF:
 ANSI IPC-A-600F CLASS -> 1 2 3
 UL 94V-0 RoHS OTHER PER ORDER

ADDITIONAL REQUIREMENTS:
 MICROSECTION: YES

BARE BOARD ELEC. TEST: NONE REQUIRED PER ORDER

MANUFACTURERS UL: RAL METAL SILK

TEXAS INSTRUMENTS

PROJECT TITLE:
Altera MAX 10 FPGA Power Reference Design

DESIGNED FOR:
Public Release

FILE NAME:
TID00607.PcbDoc

DESIGNED BY:
TI ENGL000

DATE:
14.03.2007 09:28

SCALE: 0.70

DATE:
14.03.14.34663

COMPONENTS MARKED 'DNP' SHOULD NOT BE ORDERED. SEE TOP DRAWING FOR CHANGES TO THIS DRAWING.
 ASSEMBLY VARIANT: [No Variations]

PCB VERSION: 001	BOARD: 001	DATE: 07/03/07	DESIGNER: A	DESIGNED BY: A	DATE: 07/03/07
REV: 001	REV: 001	REV: 001	REV: 001	REV: 001	REV: 001

PLT: TID00607.PcbDoc

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