

DESIGN INFORMATION

MIN. TRACK WIDTH: 8 MIL
MIN. CLEARANCE: 0.2 mm
MIN. VIA PAD SIZE: .24 MIL
MINIMUM ANNUAL RING 0.05mm (2ML) EXTERNAL
REF IPC-D-275 CLASS 2 LEVEL C
REGISTRATION TOLERANCES: METAL +/- .5 MIL HOLES +/- .3 MIL
HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- .3 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 ☒ NC_DRILL FILES
PTH COPPER THICKNESS: ☒ 20-30 um ☐ OTHER

BOARD FINISH:
SLICKSCREEN: ☒ TOP ☒ BOTTOM
SLICKSCREEN COLOR: ☒ WHITE ☐ OTHER
SOLDER RESIST COLOR: ☒ GREEN ☐ OTHER
☒ MATTIE ☐ SEMI-GLOSS

SURFACE FINISH: ☒ IMMERSION GOLD (ENIG)
☐ NiM, TIN/SILVER OR EQUIV ☐ OTHER _____

ARRAY/PANEL: ☐ CUT AND TRIM PER M1 BOARD OUTLINE
☐ N.C. ROUTE ☒ V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
☒ ANSI IPC-A-600F CLASS -> ☐ 1 ☒ 2 ☐ 3
☒ RoHS ☐ OTHER PER ORDER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
PCB MUST BEAR THE UL94-V0 UL REGISTERED MATERIAL ID NUMBER

ADDITIONAL REQUIREMENTS:
MICROSECTION: ☐ YES

BARE BOARD ELEC. TEST: ☐ NONE ☒ REQUIRED ☐ PER ORDER
☐ XX MIL WAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE
☐ XX MIL WAS REQUIRE CONDUCTIVE FILL AND PLANARIZE
☐ OUTER XX MIL TRACES REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE
☐ LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE
☐ TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE

TEXAS INSTRUMENTS

PROJECT TITLE:
MD056A
DESIGNED FOR:

P/N NAME:
MD056A_PcbDoc

DESIGNED BY:
Anthony Lodi, Joel Acedo

SCALE: 1:00

DATE:
23.11.15

COMPONENTS MARKED 'DNP' SHOULD NOT BE ORDERED.
ASSEMBLY VARIANT: 001

REVISIONS	DESCRIPTION	DATE	BY
1	Initial Release	2015-11-15	Anthony Lodi

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HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/- .3 MIL

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

DILLING:
REFERENCE: ☒ AS SHOWN ☒ NC_DRILL FILES
PTH COPPER THICKNESS: ☒ 20-30 um ☐ OTHER

BOARD FINISH:
SLICKSCREEN: ☒ TOP ☒ BOTTOM
SLICKSCREEN COLOR: ☒ WHITE ☐ OTHER
SOLDER RESIST COLOR: ☒ GREEN ☐ OTHER
☒ MATTIE ☐ SEMI-GLOSS

SURFACE FINISH: ☒ IMMERSION GOLD (ENIG)
☐ NiM, TIN/SILVER OR EQUIV ☐ OTHER _____

ARRAY/PANEL: ☐ CUT AND TRIM PER M1 BOARD OUTLINE
☐ N.C. ROUTE ☒ V. SCORE

CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:
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☒ RoHS ☐ OTHER PER ORDER

ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.
PCB MUST BEAR THE UL94-V0 UL REGISTERED MATERIAL ID NUMBER

ADDITIONAL REQUIREMENTS:
MICROSECTION: ☐ YES

BARE BOARD ELEC. TEST: ☐ NONE ☒ REQUIRED ☐ PER ORDER
☐ XX MIL WAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE
☐ XX MIL WAS REQUIRE CONDUCTIVE FILL AND PLANARIZE
☐ OUTER XX MIL TRACES REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE
☐ LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE
☐ TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE

TEXAS INSTRUMENTS

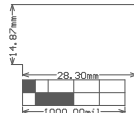
PROJECT TITLE: MD056A
DESIGNED FOR:
REV NAME: MD056A_PcbDoc

DRIVER: Anthony Lodi
LAYOUT BY: Anthony Lodi, Joel Ajece
SCALE: 1:00
ACTUAL DESIGN VERSION: 23.1.1.15

COMPONENTS MARKED 'DNP' SHOULD NOT BE ORDERED.
ASSEMBLY VARIANT: D01

REVISION	DATE	BY	DESCRIPTION
A	2023/01/10	N/A	Initial Release


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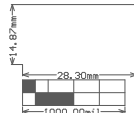
COMPONENTS MARKED 'DNP' SHOULD NOT BE USED TO REPAIR OR REPLACE
ASSEMBLY VARIANT: 001

ADG:ASSEMBLY OF INSTRUMENTS	A	SUBROOM #:	MDSUBROOM #:	CRAVES:	A	SUN 3068 NORTON WORKS 03-30-2009
LAYER NAME = HSS Only 1/4" Thick Beam Options	TID #:	N/A A/M	# QIT			
PLOT NAME: MDSUBROOM Assembly Drawings.dwg	GENERATED On:	10-22-2009	12:05:25 PM	Path	p:\mde\assemblies\INSTRUMENTS.dwg	

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DESIGN INFORMATION	
MIL TRACK WIDTH:	8 MIL
MIL CLEARANCE:	0.2 mm
MIL VIA PAD SIZE:	24 MIL
MINIMUM ANNUAL RULS: 0.05mm (2MIL)	EXTERNAL
PCIP PC-0-275 CLASS 2 LEVEL C	
REGISTRATION TOLERANCES: METAL +/-	3 MIL HOLES +/- 3 MIL
HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED):	3 MIL
MATERIAL:	
<input type="checkbox"/> FR-408	<input checked="" type="checkbox"/> FR-4 0.8 Hg
<input type="checkbox"/> OTHER	
THICKNESS: <input checked="" type="checkbox"/> 62 MIL (1.6mm)	<input type="checkbox"/> +/-10% <input type="checkbox"/> OTHER
TOLERANCE:	<input checked="" type="checkbox"/> ANSI PC-6012 TYPE 3 CLASS 2
	<input type="checkbox"/> OTHER +/-
BOW & TWIST:	<input checked="" type="checkbox"/> ANSI PC-6012 TYPE 3 CLASS 2
	<input type="checkbox"/> OTHER +/-
DRILLING:	
REFERENCE:	<input checked="" type="checkbox"/> AS SHOWN <input type="checkbox"/> NC, DRILL FILES
PTH COPPER THICKNESS: <input checked="" type="checkbox"/> 20-30 um	<input type="checkbox"/> OTHER
BOARD FINISH:	
SLKSCREEN:	<input checked="" type="checkbox"/> TOP <input type="checkbox"/> BOTTOM
SLKSCREEN COLOR:	<input checked="" type="checkbox"/> WHITE <input type="checkbox"/> OTHER
SOLDER RESIST COLOR:	<input checked="" type="checkbox"/> GREEN <input type="checkbox"/> OTHER
	<input checked="" type="checkbox"/> MATTE <input type="checkbox"/> SEMI-GLOSS
SURFACE FINISH:	
<input checked="" type="checkbox"/> IMMERSION GOLD	<input type="checkbox"/> ENERP
<input type="checkbox"/> IMM. TIN/SILVER OR EQUIV	<input type="checkbox"/> OTHER
ARRAY/PANEL:	
<input type="checkbox"/> CUT AND TRIM PER MI BOARD OUTLINE	
<input type="checkbox"/> NC ROUTE	<input type="checkbox"/> V. SCORE
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:	
<input checked="" type="checkbox"/> ANSI PC-A-600F CLASS ->	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3
<input type="checkbox"/> RoHS	<input type="checkbox"/> OTHER PER ORDER
ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.	
PCB MUST BEAR THE UL94-V0 UL REGISTERED MATERIAL ID NUMBER	
ADDITIONAL REQUIREMENTS:	
IMPERFORATION: <input checked="" type="checkbox"/> YES	
BARE BOARD ELEC. TESTS: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> PER ORDER	
<input checked="" type="checkbox"/> XX MIL VAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE	
<input checked="" type="checkbox"/> XX MIL VAS REQUIRE CONDUCTIVE FILL AND PLANARIZE	
<input type="checkbox"/> OUTER XX MIL TRACES REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE	
<input type="checkbox"/> LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE	
<input type="checkbox"/> TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE	
 TEXAS INSTRUMENTS	
PROJECT TITLE: HD096A	
DESIGNED FOR:	
FILE NAME: HD096A_PcbDoc	
DESIGNER: Anthony Lodi	LAYOUT BY: Anthony Lodi, Joel Ad
SCALE: 1.00	ACTUAL DESIGNER VERSION: 23.1.1.15


Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.40mil	3.5	
1	Top Layer		1.40mil		
	Dielectric 1	FR-4 High Tg	10.00mil	4.2	
2	Ground		1.40mil		
	Dielectric 2	FR-4 High Tg	35.60mil		
3	Power		1.40mil		
	Dielectric 3	FR-4 High Tg	10.00mil	4.2	
4	Bottom Layer		1.40mil		
	Bottom Solder	Solder Resist	0.40mil	3.5	
	Bottom Overlay				



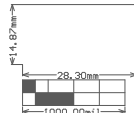
COMPONENTS MARKED 'DNP' SHOULD NOT BE USED TO REPAIR OR REPLACE
ASSEMBLY VARIANT: 001

A06	MOUNTING OF POWER DISTRIBUTION BOARD		A	SUBORD #:	MDSBROOM	#	CRAFTS A	SUN 3/8/95 NORTON WORKS 65-3341-60F
LAYER NAME =	Hatch Only - Hatch Broom Option	TID #:	N/A	AN	#	OIT		
PLOT NAME =	Power Assembly Drawing.dwg	GENERATED ON :	10/27/2006	12:05:26 PM	%U	pdrseas INSTRUMENTS.JP		

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MIL TRACK WIDTH:	8 MIL	
MIL CLEARANCE:	0.2 mm	
MIL VIA PAD SIZE:	24 MIL	
MINIMUM ANNUAL RUL: 0.05mm (2MIL)	EXTERNAL	
PCB IPC-6013 CLASS	2 LEVEL C	
REGISTRATION TOLERANCES: METAL +/-	3 MIL HOLES +/- 3 MIL	
HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED):	3 MIL	
MATERIAL:		
<input type="checkbox"/> FR-408	<input checked="" type="checkbox"/> FR-4 0.8 Hg	<input type="checkbox"/> OTHER _____
THICKNESS: <input checked="" type="checkbox"/> 62 MIL (1.6mm)	<input type="checkbox"/> +/-10%	<input type="checkbox"/> OTHER _____
TOLERANCE:	<input checked="" type="checkbox"/> ANSI PCB-6012 TYPE 3 CLASS 2	<input type="checkbox"/> OTHER +/-
	<input checked="" type="checkbox"/> ANSI PCB-6012 TYPE 3 CLASS 2	<input type="checkbox"/> OTHER +/-
BOW & TWIST:	<input checked="" type="checkbox"/> ANSI PCB-6012 TYPE 3 CLASS 2	<input type="checkbox"/> OTHER +/-
DRILLING:		
REFERENCE:	<input checked="" type="checkbox"/> AS SHOWN	<input type="checkbox"/> NC, DRILL FILES
PTH COPPER THICKNESS: <input checked="" type="checkbox"/> 20-30 um	<input type="checkbox"/> OTHER _____	
BOARD FINISH:		
SLKSCREEN:	<input checked="" type="checkbox"/> TOP	<input type="checkbox"/> BOTTOM
SLKSCREEN COLOR:	<input checked="" type="checkbox"/> WHITE	<input type="checkbox"/> OTHER _____
SOLDER RESIST COLOR:	<input checked="" type="checkbox"/> GREEN	<input type="checkbox"/> OTHER _____
	<input checked="" type="checkbox"/> MATTIE	<input type="checkbox"/> SEMI-GLOSS
SURFACE FINISH:		
<input checked="" type="checkbox"/> IMM. TIN/SILVER OR EQUIV	<input type="checkbox"/> ENIG	<input type="checkbox"/> ENERP
ARRAY/PANEL:	<input type="checkbox"/> CUT AND TRIM PER MI BOARD OUTLINE	<input type="checkbox"/> NC, ROUTE V1, 5 SCORE
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF:		
<input checked="" type="checkbox"/> ANSI PCB-A-600F CLASS ->	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2
	<input checked="" type="checkbox"/> R&HS	<input type="checkbox"/> OTHER - PER ORDER
ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS.		
PCB MUST BEAR THE UL94-V0 UL REGISTERED MATERIAL ID NUMBER		
ADDITIONAL REQUIREMENTS: MICROPROCESSOR I/O VSS		
BARE BOARD ELEC. TESTS: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> PER ORDER		
<input checked="" type="checkbox"/> XX MIL VAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE		
<input checked="" type="checkbox"/> XX MIL VAS REQUIRE CONDUCTIVE FILL AND PLANARIZE		
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<input type="checkbox"/> TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE		
 TEXAS INSTRUMENTS		
PROJECT TITLE: HD096A		
DESIGNED FOR:		
FILE NAME: HD096A_PcbDoc		
DESIGNER: Anthony Lodi		LAYOUT BY: Anthony Lodi, Joel Ad
SCALE: 1.00		ACTUAL DESIGNER VERSION: 23.1.1.15


Layer	Name	Material	Thickness	Constant	Board Layer Stack
	Top Overlay				
	Top Solder	Solder Resist	0.40mil	3,5	
1	Top Layer		1.40mil		
	Dielectric 1	FR-4 High Tg	10.00mil	4,2	
2	Ground		1.40mil		
	Dielectric 2	FR-4 High Tg	35.60mil		
3	Power		1.40mil		
	Dielectric 3	FR-4 High Tg	10.00mil	4,2	
4	Bottom Layer		1.40mil		
	Bottom Solder	Solder Resist	0.40mil	3,5	
	Bottom Overlay				



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ASSEMBLY VARIANT: 001

[illegible]

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SLKSCREEN COLOR:	<input checked="" type="checkbox"/> WHITE	<input type="checkbox"/> OTHER _____
SOLDER RESIST COLOR:	<input checked="" type="checkbox"/> GREEN	<input type="checkbox"/> OTHER _____
	<input checked="" type="checkbox"/> MATTIE	<input type="checkbox"/> SEMI-GLOSS
SURFACE FINISH:		
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ARRAY/PANEL:	<input type="checkbox"/> CUT AND TRIM PER MI BOARD OUTLINE	<input type="checkbox"/> NC, ROUTE V1, 5 SCORE
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 TEXAS INSTRUMENTS		
PROJECT TITLE: HD096A		
DESIGNED FOR:		
FILE NAME: HD096A_PcbDoc		
DESIGNER: Anthony Lodi		LAYOUT BY: Anthony Lodi, Joel Ad
SCALE: 1.00		ACTUAL DESIGNER VERSION: 23.1.1.15

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