

Layer Stack Up Detail for: TIDA-00168.PcbDoc			
Layer	Dielectric	Copper Thickness	Silkscreen Material
Top Solder Mask	(.015)		Solder Resist
Top Layer	(.015)	1.4mil	F2-4
GND	(.015)	1.4mil	F2-4
UCC	(.015)	1.4mil	F2-4
Bottom Layer	(.015)	1.4mil	
Bottom Solder Mask	(.015)		Solder Resist

DESIGN INFORMATION

BOARD SIZE (REFER ALSO ARRAY/PANEL PROFILING INFORMATION)  
2314.96MIL X 2677.16MIL  
Number of Layers : 4  
MIN. TRACK WIDTH: 8 MIL  
MIN. CLEARANCE: 7.86 MIL  
MIN. VIA PAD SIZE: 19.685 MIL  
It is not an impedance controlled board.  
MINIMUM ANNULAR RING 0.127mm (5MIL) EXTERNAL  
PER IPC-D-275 CLASS 2 LEVEL C  
REGISTRATION TOLERANCES: METAL +/- .5 MIL, HOLES +/- .3 MIL

MATERIAL:  
☒ FR-408 ☐ FR-4 High Tg ☐ OTHER  
THICKNESS: ☒ 63 MIL (1.6mm) +/-10% ☐ OTHER  
TOLERANCE: ☒ ANSI IPC-6012 TYPE 3 CLASS 2  
☐ OTHER +/-  
BOW & TWIST: ☒ ANSI IPC-6012 TYPE 3 CLASS 2  
☐ OTHER +/-  
COPPER THICKNESS (FINISHED):  
OUTER: ☒ 1.4MIL (1oz) ☐ 2MIL (1.4oz) ☐ 2.8MIL (2oz)  
INNER SIGNAL: ☒ 1.4MIL (1oz) ☐ 2.8MIL (2oz) ☐ N/A  
DRILLING:  
REFERENCE: ☒ AS SHOWN ☒ NC DRILL FILES  
PTH MIN COPPER THICKNESS: ☒ 1MIL ☐ OTHER  
BOARD FINISH:  
SILKSCREEN: ☒ TOP ☒ BOTTOM  
SILKSCREEN COLOR: ☒ WHITE ☐ OTHER  
SOLDER RESIST COLOR:  
☒ GREEN ☐ BLUE ☐ OTHER  
SURFACE FINISH: ☒ IMMERSION GOLD (ENIG) ☐ ENERPIG  
☐ IMM. TIN/SILVER OR EQUIV ☐ OTHER  
ARRAY/PANEL: ☐ CUT AND TRM PER MECH LAYER 1  
☐ 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  
☒ UL 94V-0 ☒ RoHS ☐ OTHER PER ORDER  
ADDITIONAL REQUIREMENTS:  
MICROSECTION: ☐ YES VIA TENTING: YES ☒ NO  
BARE BOARD ELEC. TEST: ☐ NONE ☒ REQUIRED ☐ PER ORDER  
MANUFACTURER'S UL: ☐ RAL ☐ METAL ☒ SILK



PROJECT TITLE:  
Thermocouple Analog Front End (AFE)

DESIGNED FOR:  
Public Release

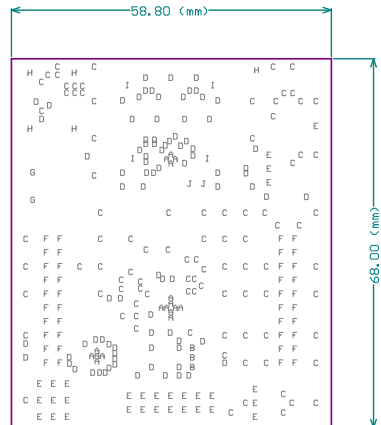
FILE NAME:  
TIDA-00168\_E1.PcbDoc

ENGINEER:  
SHARAD YADAV

LAYOUT BY:

SCALE: 0.72

ALTM DESIGNER VERSION:  
10.0.0.22084



Symbol	Hit Count	Tool Size	Plated	Hole Type
A	17	7.874mil (0.2mm)	PTH	Round
B	3	10mil (0.254mm)	PTH	Round
D	87	12mil (0.305mm)	PTH	Round
C	93	16mil (0.406mm)	PTH	Round
J	2	31.496mil (0.8mm)	PTH	Round
E	30	40mil (1.016mm)	PTH	Round
F	40	45.276mil (1.15mm)	PTH	Round
G	2	49.213mil (1.25mm)	PTH	Round
H	5	63mil (1.6mm)	PTH	Round
I	4	66.929mil (1.7mm)	PTH	Round
283 Total				

DRILL TOLERANCE  
FOR NPTH +/- 2MIL  
EXCEPT 7.874,10,12,16 MIL ALL OTHERS HAVE +0/-3 MILS TOLERANCE  
FOR 7.874 MIL DRILL +0/-7.874 MIL  
FOR 16 MIL DRILL :+0 /-16 MIL  
FOR 12 MIL DRILL :+0 /-12 MIL  
FOR 10 MIL DRILL :+0 /-10 MIL



<div>1000 (mil)</div>				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.	ENGINEER:	LAYOUT BY:
ALL ARTWORK VIEWED FROM TOP SIDE					SHARAD YADAV	
LAYER NAME = Drill Drawing						
PLOT NAME = Fabrication Drawing		GENERATED : 10/1/2014 11:55:09 AM		TEXAS INSTRUMENTS	SCALE: 0.72	ALTUM DESIGNER VERSION: 10.0.0.22084