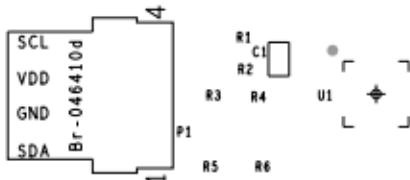
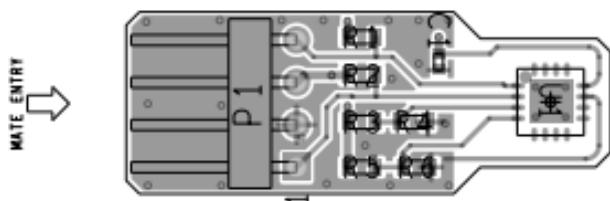


SILKSCREEN PRIMARY
08-046410-03
REV D

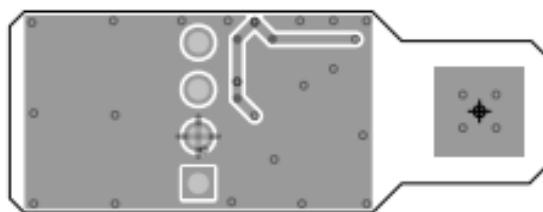


L1 PRIMARY
08-046410-01
REV D



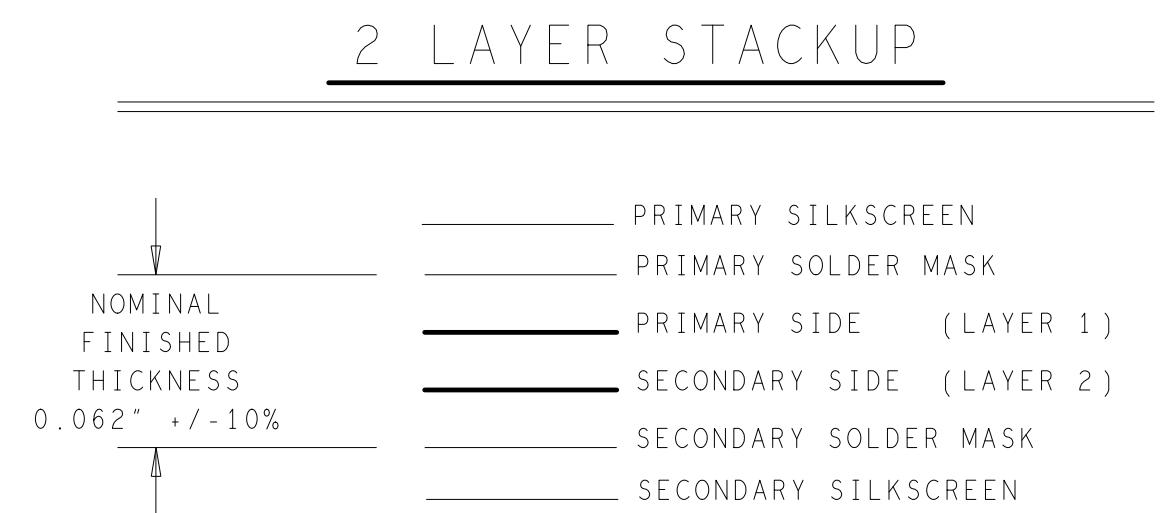
ART FILM - 12_secondary

L2 SECONDARY
08-046410-02
REV D



ART FILM - 12_secondary

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08NOV16	R CALAM



SPECIFICATIONS:

MATERIALS:

ALL LAMINATES AND BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103, MINIMUM $T_g > 170\text{degC}$, $T_d > 300\text{degC}$, U.L. RATING OF 94 V-0

MATERIAL FAMILY:

FR406

CLADDING:

EXTERNAL LAYERS .5 OZ. COPPER, OVERPLATE TO 1.5 OZ.

SOLDER MASK:

SHALL BE LIQUID PHOTOIMAGEABLE (LPI) APPLIED ON BOTH SIDES OVER BARE COPPER OR GOLD AND SHALL MEET IPC-SM-840 (LATEST REV.) CLASS 3. COLOR BLUE.

SILK SCREEN:

SHALL BE PERMANENT NON-CONDUCTIVE EPOXY INK, COLOR: WHITE SYNTHETIC INKJET PRINTING ALLOWED FOR DENSE BOARDS, COLOR: WHITE

SURFACE FINISH:

3) ENIG (Electroless Nickel/Immersion Gold)
100 MICRO INCHES NICKEL/
3.5 MICRO INCHES GOLD

INTENTIONAL SHORTS:

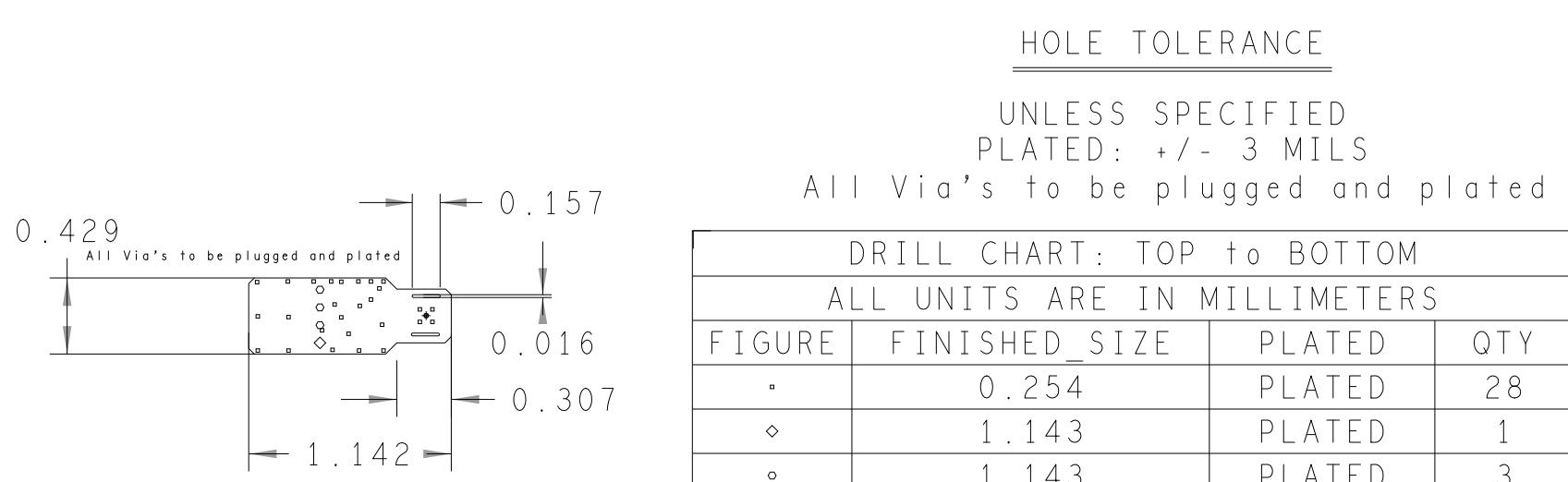
IF SUPPLIED DATA INCLUDES A FILE "READ_ME.2", THEN INTENTIONAL NET SHORTS EXIST. CUSTOMER REVIEW AND APPROVAL IS REQUIRED IF SUPPLIED DATA REPORTS ANY CONDITION THAT DOES NOT MATCH "READ_ME.2" FILE PROVIDED.

TEST REQUIREMENTS:

100% NETLIST ELECTRICAL VERIFICATION USING CUSTOMER SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS WHEN "GERBER DATA" IS PROVIDED. THIS VERIFICATION ALSO REQUIRED FOR "ODB+" DATA PER EMBEDDED NETLIST.

REQUIREMENTS:

1. REFER TO IPC-6010 SERIES (LATEST REV.), CLASS 2 FOR FABRICATION UNLESS OTHERWISE SPECIFIED.
2. ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00115, (LATEST REVISION.)
3. MODIFICATIONS TO THE ARTWORK ARE NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION.
4. HOLE PATTERN TOLERANCES FOR UNDIMENSIONED HOLES SHALL BE A DIAMETER OF 0.005 INCHES FROM THEIR TRUE POSITION.
5. PLATED HOLE WALL THICKNESS SHALL NOT BE LESS THAN 0.001 INCH MINIMUM AVERAGE, WITH NO READING LESS THAN .0008 BY CROSS SECTION.
6. HOLE DIAMETERS APPLY AFTER PLATING.
7. FINISHED CONDUCTOR WIDTHS SHALL NOT BE REDUCED FROM THE NOMINAL INDICATED ON THE MASTER PATTERN, BY MORE THAN THE CONDUCTOR THICKNESS.
8. MINIMUM DESIGN LINE WIDTH IS .012 INCH.
9. MINIMUM DESIGN SPACING IS .008 INCH.
10. NON-FUNCTIONAL PAD REMOVAL FROM INNER SIGNAL LAYERS MAY BE PERFORMED AFTER CUSTOMER APPROVAL.
11. IF PAD SIZES PROVIDED ARE NOT LARGE ENOUGH TO MAINTAIN ANNUAL RING REQUIREMENT, MFGR. MAY REQUEST APPROVAL TO TEAR DROP PADS TO MAINTAIN ANNUAL RING. (AT PAD TO TRACE INTERSECTION ONLY AND ELECTRICAL INTEGRITY MUST BE MAINTAINED.)
12. THIEVING MAY BE ADDED TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN ONLY AFTER REVIEW AND APPROVAL FROM THE CUSTOMER:
 - A. THIEVING TO CARD EDGE, FIDUCIALS, NON-PLATED THROUGH HOLES, ALL OTHER FEATURES TO BE 0.200 INCH MINIMUM.
 - B. THERE SHALL BE NO THIEVING IN ANY AREAS FREE OF SOLDER MASK OR INTERNAL COPPER PLANES.
13. MFGR. TO LEGIBLY ETCHE OR STAMP/SCREEN WITH PERMANENT NON-CONDUCTIVE INK ON SECONDARY SIDE IN A CLEAR AREA UNLESS OTHERWISE INDICATED:
 - A. U.L. CODE-FLAMMABILITY RATING
 - B. DATE CODE (STAMP)
 - C. LOT NUMBER
 - D. MFGR LOGO
 - E. SUCCESSFUL ELECTRICAL TEST.
14. REPAIRS PER IPC-7711/21 (LATEST REV.) ARE ALLOWED.



ADT7420 Customer Evaluation

PRIMARY SIDE			
UNLESS OTHERWISE SPECIFIED	APPROVAL	DATE	TEMPLATE ENGINEER
DECIMALS	FRACTIONS	ANGLES	HARDWARE SERVICES
.XX .. .010	..1/32	.. 2	M MADDEN
XXX .. .005			Feb2019
XXXX .. .0000			HARDWARE SYSTEMS
MATERIAL			
TEST ENGINEER			
COMPONENT ENGINEER			
B SOMERS			Feb2019
TEST PROCESS			
N/A			
HARDWARE RELEASE			
FINISH			
DESIGNER			
B SOMERS			Feb2019
PTO ENGINEER			
CHECKER			
N/A			
DO NOT SCALE DWG			
SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	09-046410	D
SCALE	1/1		
		SHEET 1 OF 1	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

D

D

C

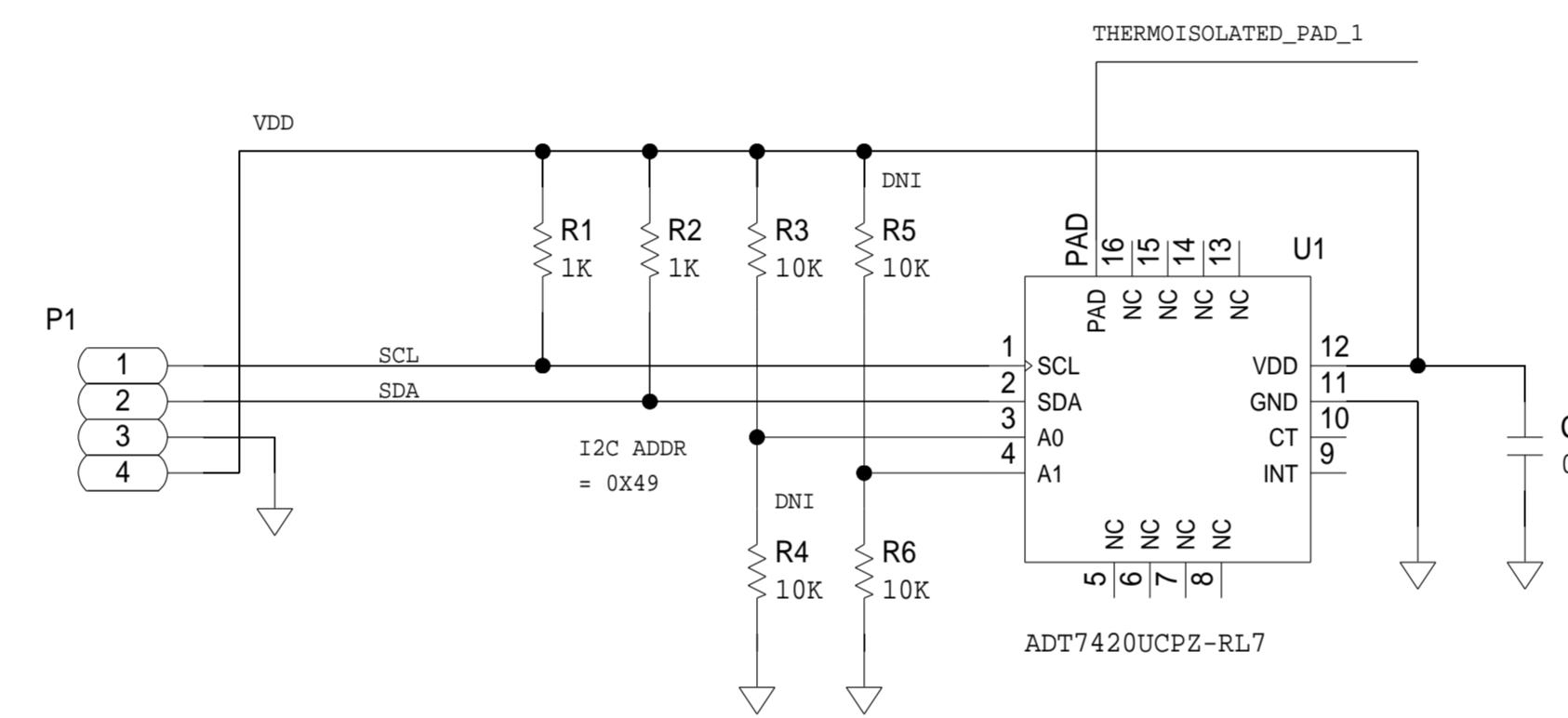
C

B

B

A

A



SCHEMATIC			
HW TYPE : Customer Evaluation		DRAWING NO. 02_046410	
Product(s): ADT7420		REV B	
THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO OTHERS, EXCEPT PURSUANT TO A PURCHASE AGREEMENT EXISTING BETWEEN THE PARTIES OR BY LICENSE AGREEMENT OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREIN MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY OWNED ANALOG DEVICES.		DESIGN VIEW <DESIGN_VIEW>	
PTD ENGINEER B. Somers	SIZE D 1:1	SCALE 1:1	SHEET 2 OF 2

TITLE: Bill of Materials

DATE: 03/22/2019

DESIGN: 02_046410b_top

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	JEDEC_TYPE	TOL	VOLTAGE	WATTAGE	LOCATION	MFG	MFG_PN	HLM_STATUS	STOCKROOM_WL	STOCKROOM_GT	STOCKROOM_LK	STOCKROOM_GBO	STOCKROOM_NSH	CUSTOM_PART	DNI
1	1	08_046410b	PCB	?	?	?	?	?	?	Analog Devices Supplied	08_046410b	N/A	?	?	?	?	?	?	
2	1	E026461	CAP CER X7R, SOFT TERMINATION	0.1UF	C0402	10	50V	N/A	C1	TDK	C1005X7R1H104K050BE	REL	N/A	N/A	N/A	N/A	N/A	?	
3	1	E035208	CONN-PCB 4POS HDR MALE RA, 2.54MM PITCH, SOLDER TAIL 2.29MM	TSW-104-08-G-S-RA	CNTHMHDRRA1X4L400W100H124	N/A	N/A	N/A	P1	SAMTEC INC.	TSW-104-08-G-S-RA	REL	N/A	N/A	N/A	N/A	N/A	?	
4	2	E015180	RES THICK FILM CHIP	1K	R0603	1	N/A	1/4W	R1,R2	VISHAY	CRCW06031K00FKEAHP	REL	N/A	N/A	N/A	N/A	N/A	7006446	
5	2	E007899	RES THICK FILM CHIP 0603	10K	R0603	1	N/A	1/16W	R3,R6	MULTICOMP (SPC)	MC0603WGF1002T5E-TC	REL	N/A	N/A	N/A	N/A	N/A	7005853	
7	1	E013789	IC-ADI 16-BIT DIGITAL I2C TEMP SENSOR	ADT7420UCPZ-RL7	QFN16_4X4_PAD2_6X2_6	N/A	N/A	?	U1	ANALOG DEVICES	ADT7420UCPZ-RL7	REL	N/A	N/A	N/A	N/A	N/A	1004018	

Mechanical Parts

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	JEDEC_TYPE	TOL	VOLTAGE	WATTAGE	LOCATION	MFG	MFG_PN	HLM_STATUS	STOCKROOM_WL	STOCKROOM_GT	STOCKROOM_LK	STOCKROOM_GBO	STOCKROOM_NSH	CUSTOM_PART	DNI
2	1	M034882	RIBBON CABLE FLAT SLIM BODY, 4POS, 7INCH	?	N/A	?	?	?	?	SAMTEC INC.	IDSS-04-D-07.00-R	REL	N/A	N/A	N/A	N/A	?	?	

The following components are part of the PCB or are NOT to be installed

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	JEDEC_TYPE	TOL	VOLTAGE	WATTAGE	LOCATION	MFG	MFG_PN	HLM_STATUS	STOCKROOM_WL	STOCKROOM_GT	STOCKROOM_LK	STOCKROOM_GBO	STOCKROOM_NSH	CUSTOM_PART	DNI
6	2	E007899	RES THICK FILM CHIP 0603	10K	R0603	1	N/A	1/16W	R4,R5	MULTICOMP (SPC)	MC0603WGF1002T5E-TC	REL	N/A	N/A	N/A	N/A	N/A	7005853	