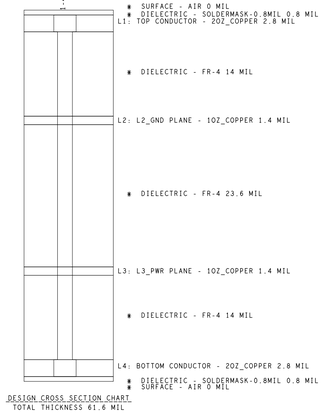


DESIGN CROSS SECTION CHART
TOTAL THICKNESS 61.6 MIL

TABLE 1:

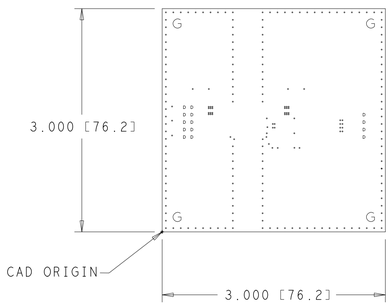
LAYER NO.	LAYER NAME	DIFFIRENTIAL PAIR IMPEDANCE (OHMS)	DIFF TRACE WIDTH	DIFF TRACE	SINGLE ENDED IMPEDANCE (OHMS)	SINGLE ENDED TRACE WIDTH	REFERENCE LAYER
LAYER 1	TOP				50 OHMS	25 MILS	L2_GND
LAYER 2	L2_GND						
LAYER 3	L3_PWR						
LAYER 4	BOTTOM				50 OHMS	25 MILS	L3_PWR

SPECIAL FAB NOTES:

1: FAB SHOP MUST FOLLOW THE SOLDER MASK REVIEW LAYERS.
2: ADJUSTMENTS MAY BE MADE TO THE DIELECTRIC THICKNESS AND SIGNAL TRACE WIDTH IN ORDER TO MAINTAIN A TOTAL BOARD THICKNESS.

PLACE DRILL CHART HERE:

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	10.0	+3.0/-10.0	PLATED	214
◦	38.0	+0.0/-0.0	PLATED	14
G	125.0	+2.0/-2.0	NON-PLATED	4



DESIGN INFORMATION

BOARD SIZE (REFER ALSO ARRAY/PANEL PROFILING INFORMATION)
NUMBER OF LAYERS: 4
MIN. TRACK WIDTH: 11 MIL
MIN. CLEARANCE : X.X MIL
MIN. VIA PAD/DRILL: 20/10 MIL

MIN. ANNULAR RING 2 MIL EXTERNAL PER IPC-6012C CLASS 2
REGISTRATION TOLERANCES: METAL +/- X MIL, HOLES +/- X MIL
IMPEDANCE CONTROL: [ ] NONE [X] YES - SEE TABLE 1
MIXED DIELECTRIC: [X] NO [ ] YES
LAMINATE MATERIAL:
[X] FR-4 HIGH Tg [ ] ROGERS 4350B [ ] OTHER: _____
THICKNESS:
[X] 0.062" +/-10% [ ] 0.093" +/-10% [ ] OTHER: _____
TOLERANCE:
[X] IPC-6012C TYPE 3 CLASS 2
[ ] OTHER +/-
BOW & TWIST:
[X] IPC-6012C TYPE 3 CLASS 2
[ ] OTHER +/-
COPPER THICKNESS (FINISHED):
OUTER: [ ] 1/4 OZ. [ ] 1/2 OZ. [X] 1.0 OZ. [ ] 2.0 OZ.
INNER SIGNAL: [ ] 1/4 OZ. [ ] 1/2 OZ. [ ] 1.0 OZ. [ ] 2.0 OZ.
INNER PLANE: [ ] 1/4 OZ. [ ] 1/2 OZ. [ ] 1.0 OZ. [X] 2.0 OZ.
OTHER: _____
BOARD FINISH:
SILKSCREEN: [X] TOP [X] BOTTOM
SILKSCREEN COLOR: [X] WHITE [ ] OTHER _____
SOLDERMASK: (PER IPC-6011,6012)
[X] TOP [X] BOTTOM
SOLDERMASK COLOR: [X] GREEN [ ] BLUE [ ] OTHER _____
THROUGH-HOLE VIA TREATMENT:
[ ] OPEN [X] TENTED IDENTIFIER: ALL x MIL VIAS
VIA FILL USING NON-CONDUCTIVE EPOXY:
[X] NO [ ] YES IDENTIFIER: ALL x MIL VIAS
THIEVING ALLOWED: [ ] YES [X] NO
BOARD SURFACE TREATMENT:
[X] NICKEL/GOLD (ENIG) [ ] ORGANIC (OSP) [ ] HASL [ ] ENEPIG
[ ] IMMERSION TIN [ ] OTHER _____
FOR WIRE BONDING:
[ ] HARD GOLD [ ] SOFT GOLD [ ] PER SUPPLIED ARTWORK
ADDITIONAL REQUIREMENTS:
[X] MICRO-SECTION [X] TDR REPORTS/COUPONS [X] ELECTRICAL TEST
[X] CERTIFICATES OF COMPLIANCE [X] RoHS [X] UL 94V-0
VENDOR MARKING:
VENDOR DATE CODE,UL,LOGO: [ ] ETCH [X] SILKSCREEN [ ] BREAK-AWAY
[X] IN AN OPEN AREA [ ] WHERE INDICATED (SEE DRAWING)

	BOARD NAME: ISOWATT + TCAN REFERENCE DESIGN	BOARD REV: A	ID: TIDA-00893	JOB NUMBER:
	ALL ARTWORK LAYERS VIEWED FROM TOP	LAYER DESCRIPTION: BOARD OUTLINE **FABRICATION DRAWING**		

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THIRD ANGLE PROJECTION

TOLERANCES
UNLESS OTHERWISE SPECIFIED
UNITS IN (MM)
IN (.XX)+/-0.01 (.XXX)+/-0.003
MM (.XX)+/-0.01 (.XXX)+/-0.003
FRACTION +/- 1/32
ANGLE +/- 1.0 DEGREE

APPROVALS	DATE
DRAWN: J. NERGER	01-16-17
RELEASED: XXX	XX-XX-XX
DO NOT SCALE DRAWING	

CUSTOMER

ENGINEER
J. NERGER

BOARD NAME : ISOWATT + TCAN

FABRICATION DRAWING

SIZE	ID NO.	JOB NO.	REV.
D	TIDA-00893		A

SCALE NONE

SHEET 1 OF 1