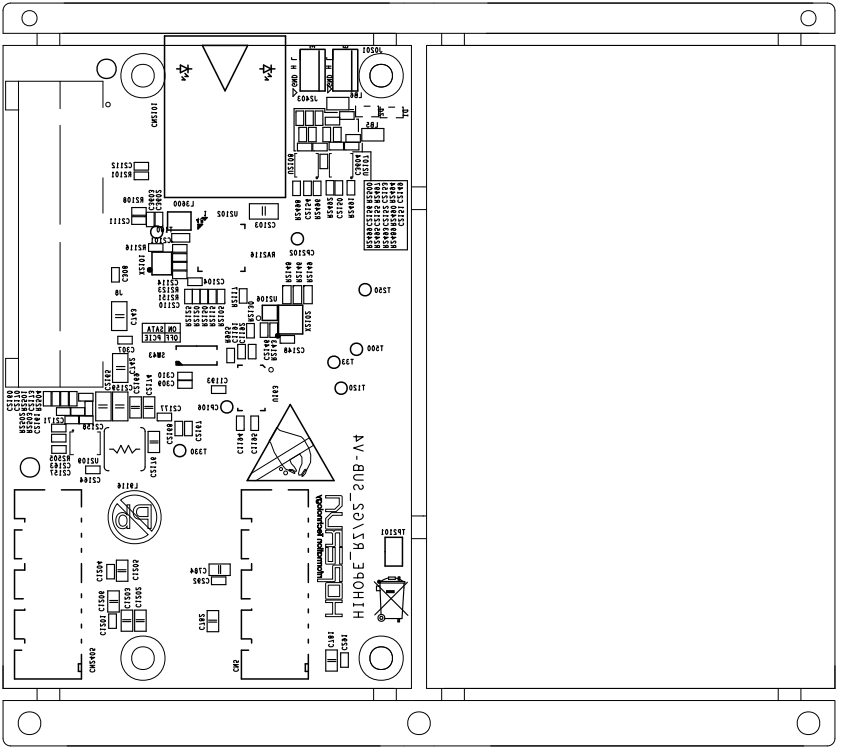
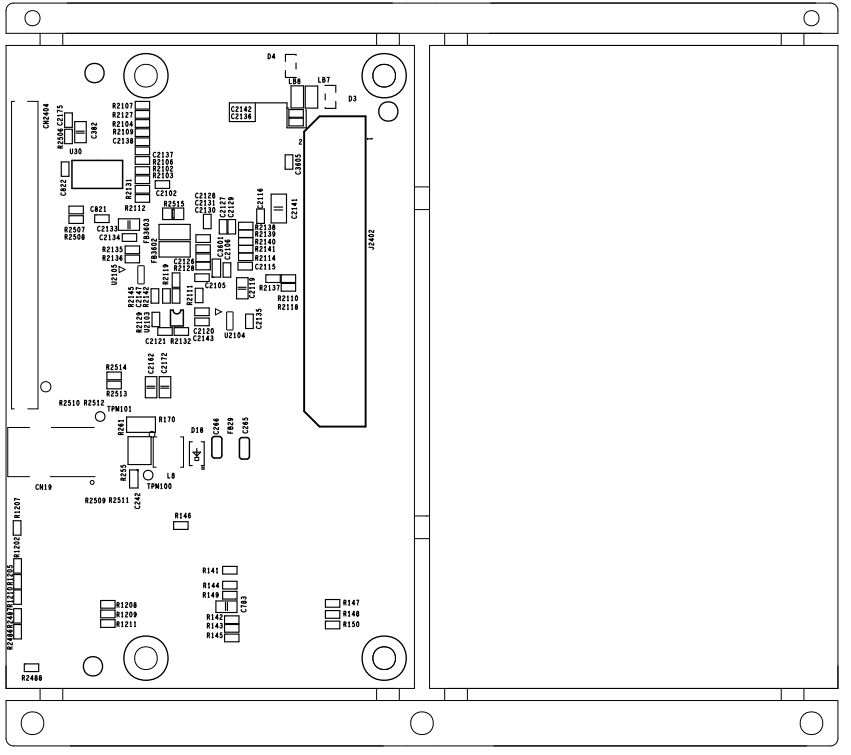
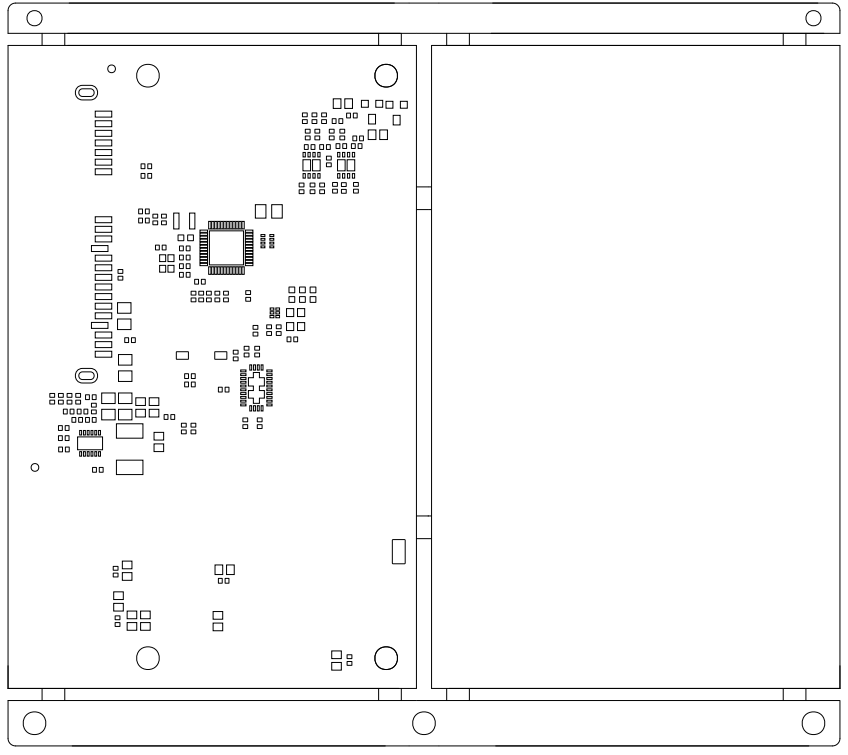
ART FILM - SILK_BOTTOM

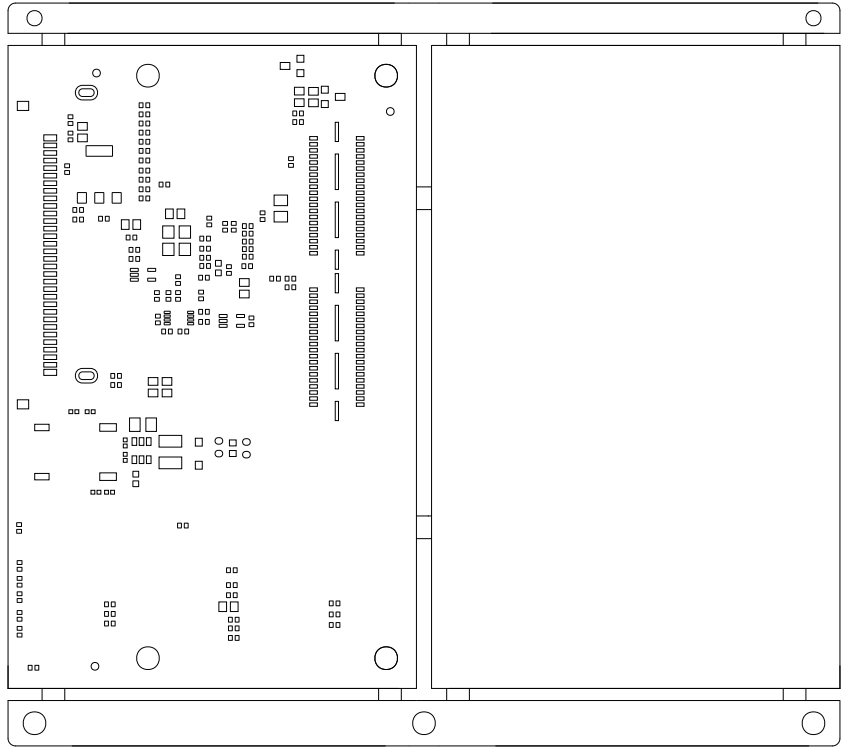


ART FILM - SILK_BOTTOM


D4
LB6
LB7
D3
C2142
C2136
CR404
R2506
C2175
C382
U30
C822
R2107
R2127
R2104
R2109
R2130
C2137
R2106
R2102
R2103
R2131
C2102
R2112
R2515
C821
R2507
R2508
C2134
FB3402
R2135
R2136
U2101
C2128
C2131
C2130
C2127
C2129
C2116
C2141
C2138
R2139
R2140
R2141
C2106
C2104
R2114
C2115
C2105
C2119
R2137
R2110
R2118
J2402
C2605
R2145
C2147
C2146
R2129
U2102
R2111
R2119
C2121
R2132
C2120
C2143
U2104
C2135
R2514
C2142
C2172
R2513
R2510
R2512
TPM101
R241
R170
D10
C246
FB29
C245
R235
TPM100
L8
CM19
R2509
R2511
C242
R146
R1207
R1202
R141
R144
R140
C183
R147
R143
R145
R1208
R1209
R1211
R147
R148
R150
R2400

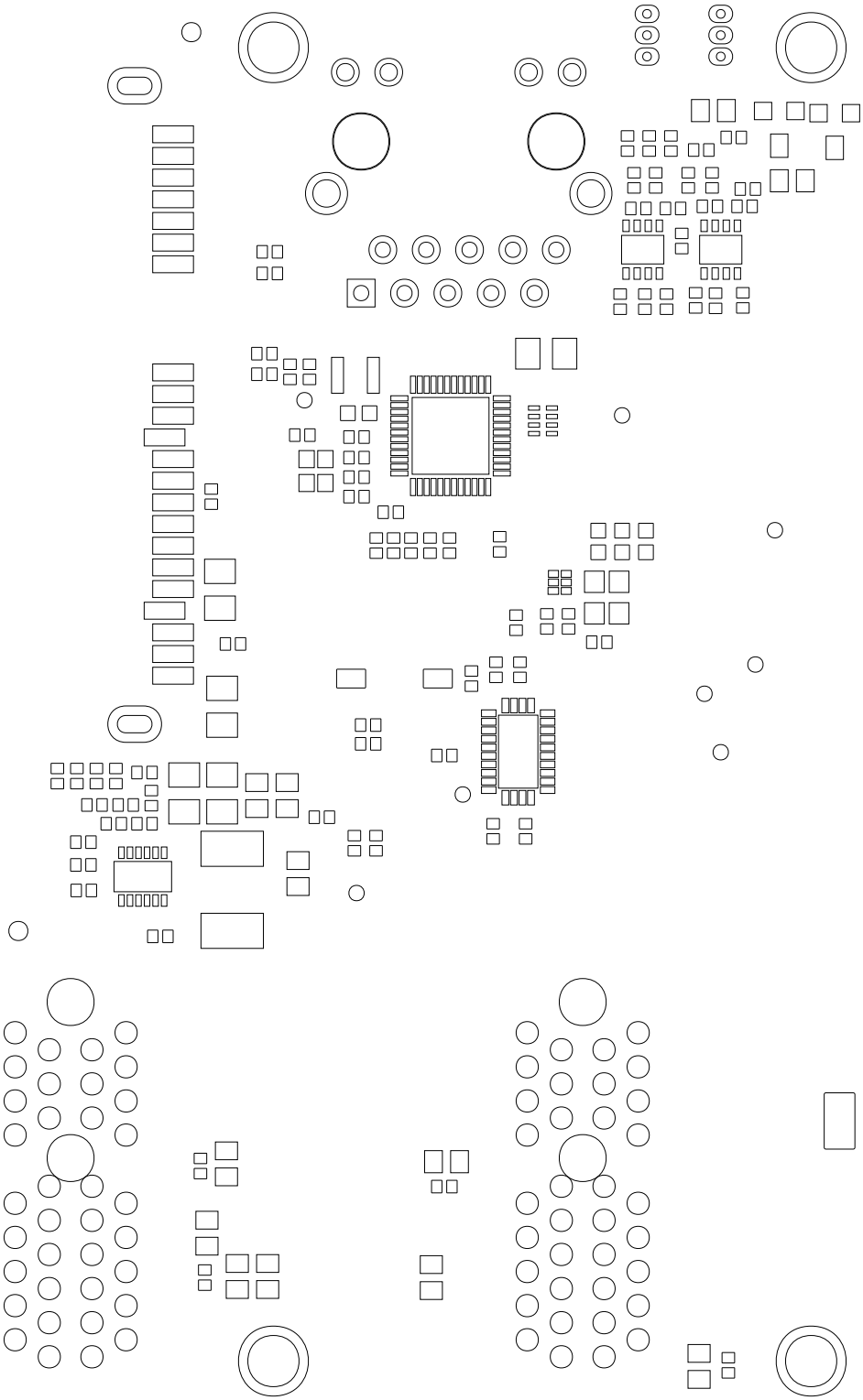


ART FILM - PASTE_TOP



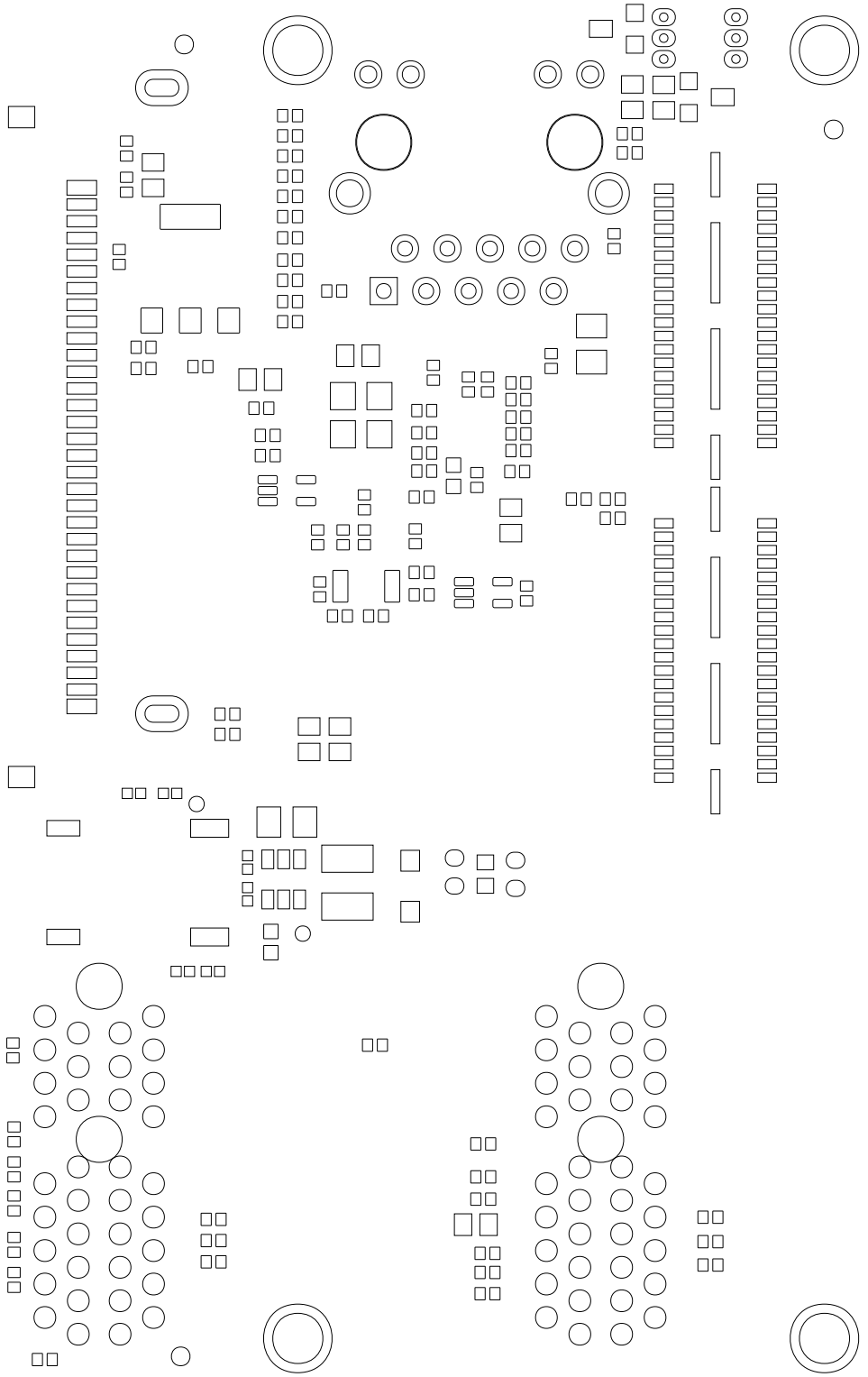
ART FILM - PASTE_TOP

ART FILM - SR_BOTTOM



ART FILM - SR_BOTTOM

ART FILM - SR_TOP



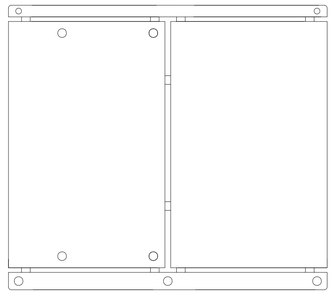
ART FILM - SR_TOP

ART FILM - FAB

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	10-27-18	

NOTES (UNLESS OTHERWISE SPECIFIED):

1. THIS DRAWING SPECIFIES THE REQUIREMENTS FOR A PRINTED WIRING BOARD IN ACCORDANCE WITH SPECIFICATION IPC-A-600 CLASS 2 (LATEST REVISION).
2. THE PWB MUST BE LEAD FREE ASSEMBLY PROCESS COMPATIBLE AND MUST BE ABLE TO HANDLE A MINIMUM OF 5 CYCLES AT 260 DEGREES CELSIUS FOR 10 SECONDS.
3. BASE MATERIAL - LAMINATE AND PREPREG SHALL MEET IPC-4101B-26, 83 or 98
   Tg - MUST BE GREATER THAN OR EQUAL TO 150 DEGREES CELSIUS.
   Td - MUST BE GREATER THAN OR EQUAL TO 330 DEGREES CELSIUS.
4. COPPER FOIL WEIGHT - SEE STACKUP DETAIL 'A'
5. CHARACTERISTIC IMPEDANCE - SEE DETAIL 'B'
6. MINIMUM CONDUCTIVE WIDTH/SPACING TO BE .00473"/.004"
7. PLATING FINISH - BOTH SIDES ENIG (ELECTROLESS NICKEL IMMERSION GOLD):
   .05080-.232 MICRON (2-8 MICROINCH) OF GOLD OVER
   2.540-6.350 MICRON (100-250 MICROINCH) OF NICKEL.
8. ALL THROUGH HOLE VIAS MAY BE PLATED SHUT AND BE FILLED WITH OIL. COPPER PLATING:0.025--0.050MM
9. SOLDERMASK - GREEN COLOR (TAIYO OR EQUIVALENT), BOTH SIDES.
   MODIFICATION OF SOLDERMASK IS NOT ALLOWED WITHOUT WRITTEN PERMISSION FROM NXP.
10. SILKSCREEN - WHITE EPOXY INK, BOTH SIDES. NO SILK ON PADS.
11. ELECTRICAL TEST - 100% IPCD356.
12. PRINTED WIRING BOARD IS TO BE INDIVIDUALLY BAGGED.
13. DRC'S MUST BE RUN ON THE GERBER BEFORE BUILDING BOARDS,
    UNLESS PRIOR APPROVAL IS GIVEN IN WRITING BY NXP.
14. TEARDROPS MAYBE ADDED AT THE FAB HOUSE TO ALL SIGNAL LAYERS.
15. TWO SOLDER SAMPLES TO BE PROVIDED.
16. BASIC GRID INCREMENT AT 1:1 IS .0001.
17. SUPPLIER MARKINGS - ON SOLDER SIDE ONLY, WHERE SHOWN.
    - MUST BE UL RECOGNIZED AND MUST HAVE AN ID THAT CONFORMS TO UL94V-0
18. THE PWB WILL BE MARKED AS LEAD FREE BY USE OF AN INK STAMP (Pb)
19. THE PWB WILL BE MARKED AS LEAD FREE PROCESS COMPATIBLE BY USE OF AN INK STAMP (260°C)
20. ALL PLATED AND NON-PLATED THROUGH HOLES ARE TO BE DRILLED AT PRIMARY DRILL STEP.
    ALL HOLE LOCATION TOLERANCES ARE TO BE +/-.002 IN NXP TO THE PRIMARY DATUM.
21. FINISHED PCB MUST BE PANELIZED FOR ASSEMBLY ACCORDING TO CONTRACT MANUFACTURERS REQUIREMENTS.
    THE ADDITION OF RAILS AND .125"NON-PLATED TOOLING HOLES ARE AT THE DISCRETION OF
    CONTRACT MANUFACTURER.PANELIZATION MUST BE APPROVED BY CONTRACT MANUFACTURER.
22. THE MANUFACTURE HAS THE OPTION TO ADD COPPER THIEVING ON OUTER AND INNER LAYERS,
    KEEP A MINIMUM DISTANCE OF .100" FROM ANY BOARD FEATURES.

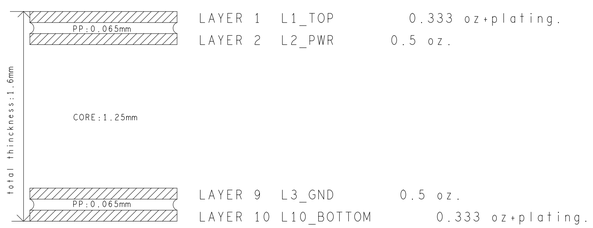


VIEW FROM PRIMARY SIDE

DETAIL B
IMPEDANCE REQUIREMENTS
IMPEDANCE TOLERANCE IS 10%

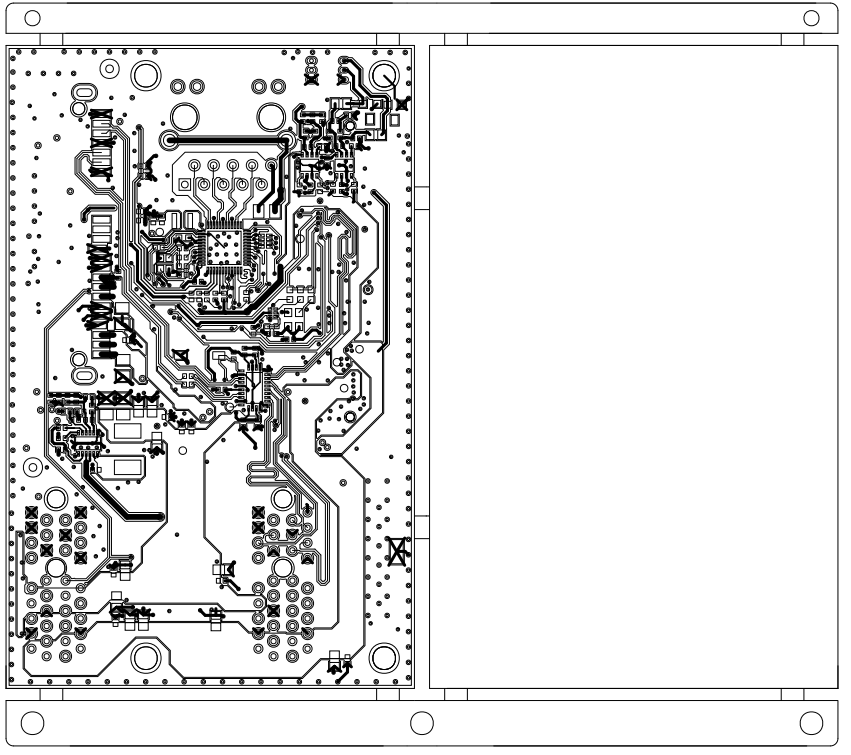
Layers	Single Ended		Differential			Differential			Differential		
	Trace Width (mm)	Impedance (Ohms)	Trace Width (mm)	Trace Spacing "Airgap" (mm)	Impedance (Ohms)	Trace Width (mm)	Trace Spacing "Airgap" (mm)	Impedance (Ohms)	Trace Width (mm)	Trace Spacing "Airgap" (mm)	Impedance (Ohms)
L1_TOP	0.1004	50				0.1003	0.1797	95	0.1001	0.1199	90
L4_BOTTOM	0.1004	50				0.1003	0.1797	95	0.1001	0.1199	90

DETAIL A
LAYER STACKUP
SCALE: NONE

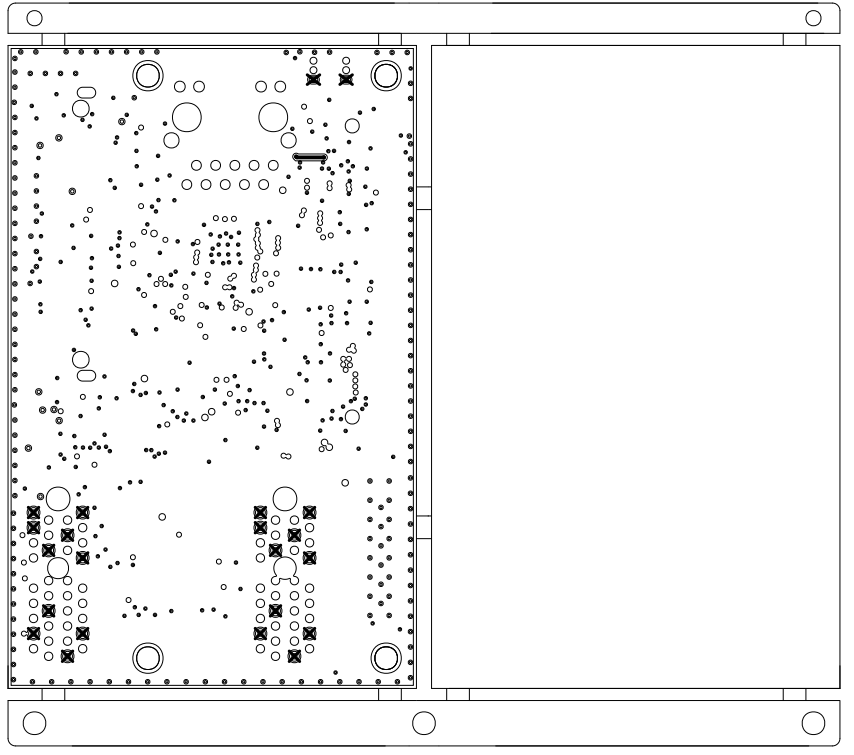


	PART NO. XXXXX	Company ADDRESS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM] TOLERANCES ARE: DECIMALS .XX .01 .XXX .005 ANGLES .0-30' √ RMS ALL MACHINED SURFACES BREAK ALL SHARP EDGES AND CORNERS, REMOVE BURRS. UNDERLINED DIM. NOT TO SCALE. THIRD ANGLE ORTHOGRAPHIC PROJECTION IS USED.	APPROVALS / DATE: DRAWN; CHECKED; DESIGN ENGINEER	TITLE: PRINTED WIRING BOARD
	SIZE D; CAD FILE NAME; DWG. NO.; REV A	
	SCALE; DO NOT SCALE DRAWING; SHEET 1 OF 1	

ART FILM - FAB

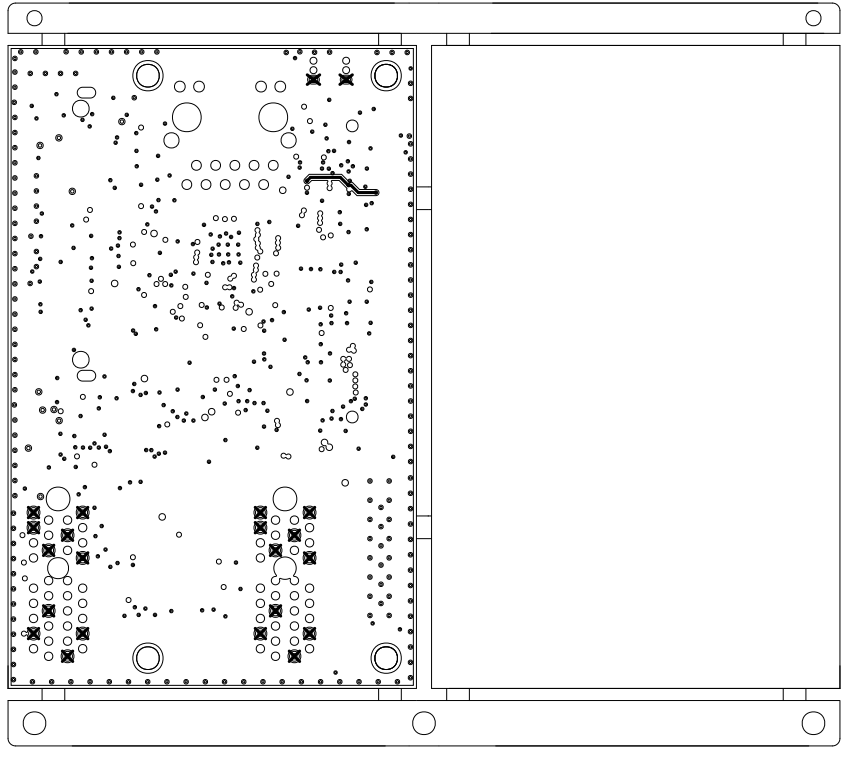


ART FILM - L3



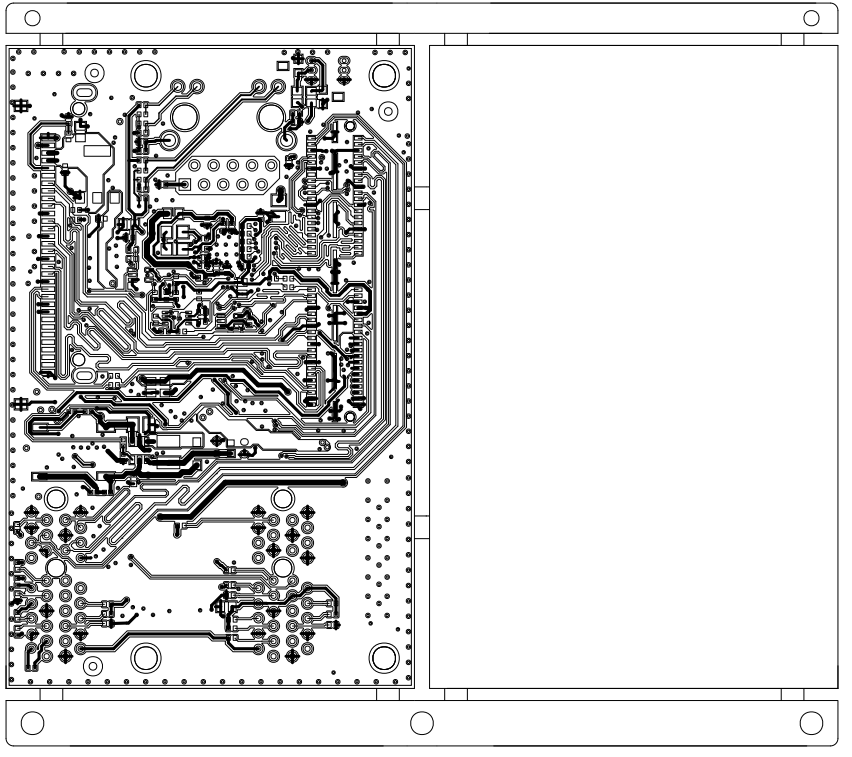
ART FILM - L3

ART FILM - L2

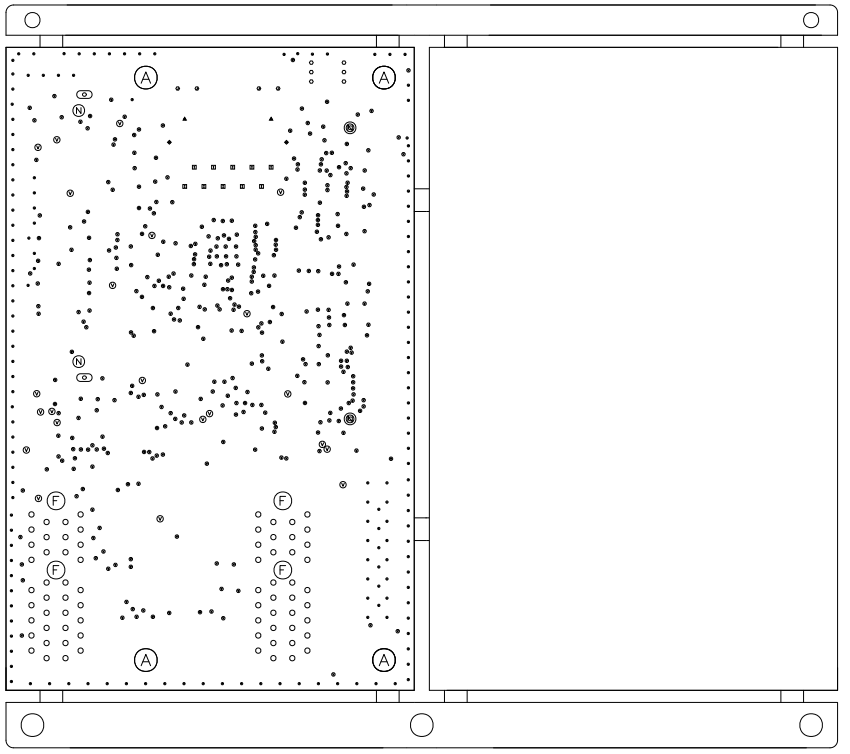


ART FILM - L2

ART FILM - TOP



ART FILM - TOP



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
•	10.0	PLATED	385
·	11.811	PLATED	152
⊗	18.0	PLATED	22
◦	20.0	PLATED	6
○	27.559	PLATED	72
▪	35.0	PLATED	10
◦	40.0	PLATED	4
•	63.0	PLATED	2
Ⓐ	118.11	PLATED	4
©	43.307	NON-PLATED	2
Ⓝ	44.0	NON-PLATED	2
Ⓝ	63.0	NON-PLATED	2
Ⓕ	92.52	NON-PLATED	4
▲	127.953	NON-PLATED	2
⊙	80.0x40.0	PLATED	2