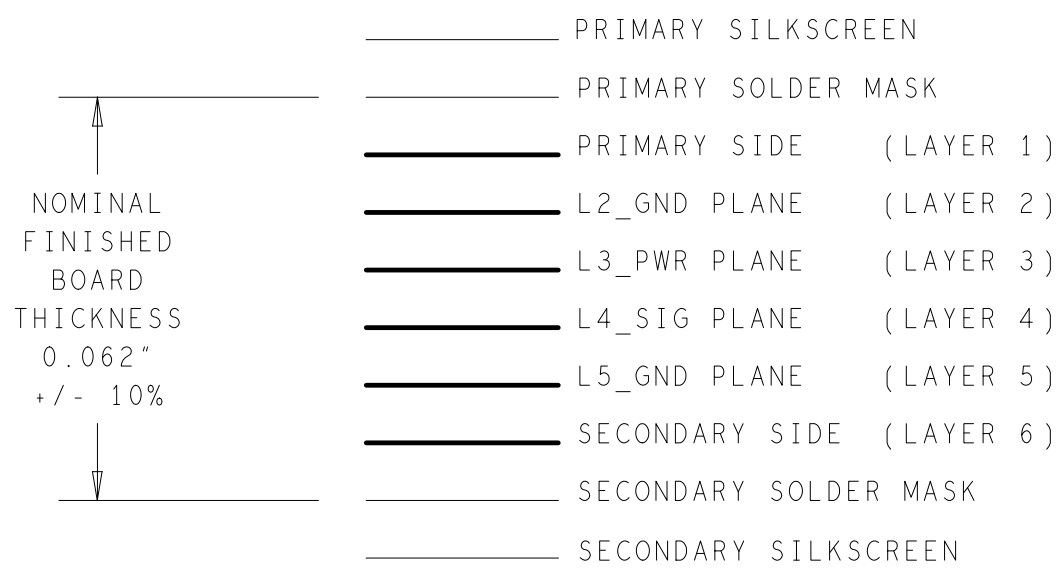
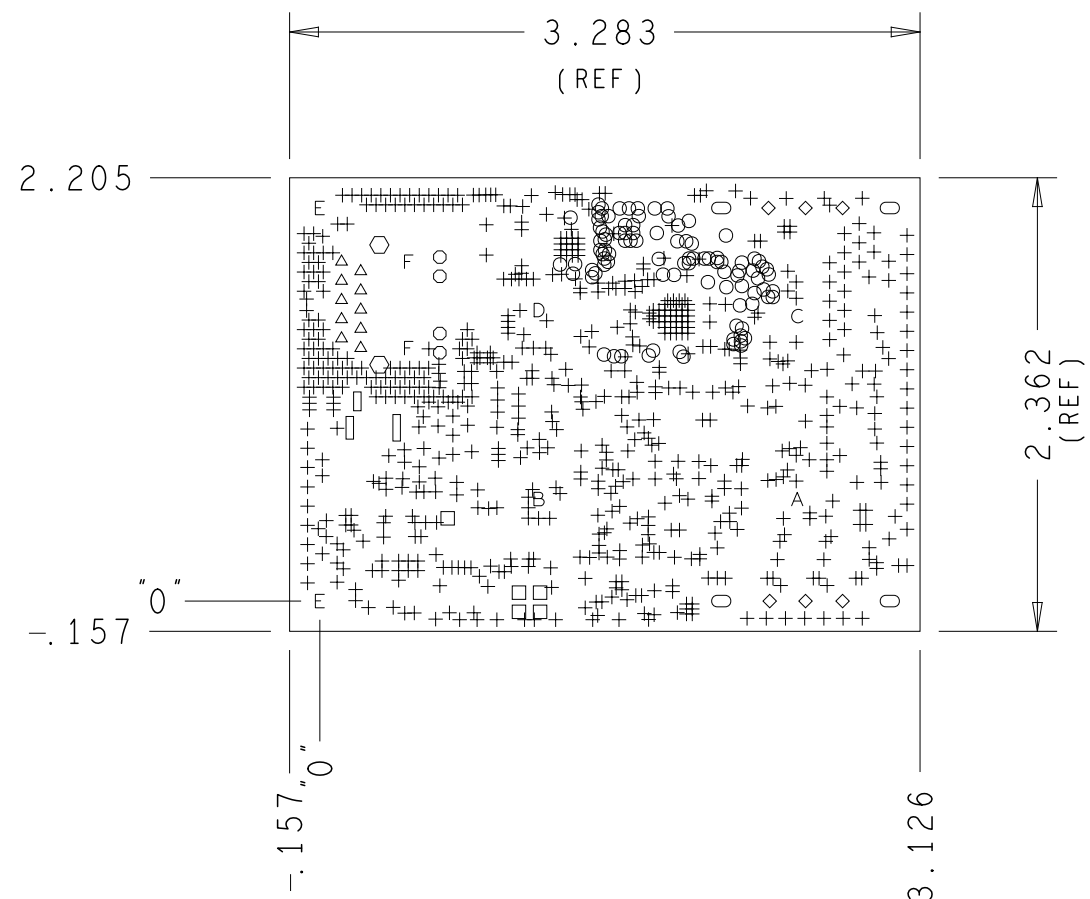


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09FEB23	AP02
B	CHANGES AS PER ECR-113613	20JUN23	AP02

6 LAYER STACKUP



LAMINATION DIAGRAM				
LAYER NUMBER	LAYER NAME	COPPER THICKNESS (OZ. INCH)	DIELECTRIC THICKNESS (INCH)	MATERIALS
1	TOP	1 OZ. 0.0014"	0.007	FINAL CU (THICKNESS AFTER PLATING)
2	L2_GND	1 OZ. 0.0014"		ISOLA 370HR/EQUIVALENT
3	L3_PWR	1 OZ. 0.0014"	0.008	CU CLAD
4	L4_SIG	1 OZ. 0.0014"		ISOLA 370HR/EQUIVALENT
5	L5_GND	1 OZ. 0.0014"	0.022	CU CLAD
6	BOTTOM	1 OZ. 0.0014"		ISOLA 370HR/EQUIVALENT
			0.008	ISOLA 370HR/EQUIVALENT
				CU CLAD
			0.007	ISOLA 370HR/EQUIVALENT
				ISOLA 370HR/EQUIVALENT
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			0.007	ISOLA 370HR/EQUIVALENT
				ISOLA 370HR/EQUIVALENT
			0.007	ISOLA



NOTES : UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED).
ALL DOCUMENTS & SPECIFICATIONS REFERRED TO BELOW SHOULD BE THE LATEST REVISIONS.

MATERIAL : HOMOGENOUS MATERIALS IN THIS BOARD SHALL BE COMPLAINT WITH THE EU DIRECTIVE 2002/95/EC

2. BOARD MATERIAL:{USE CHECKED ITEMS}
(X) ISOLA 370HR OR S1000-2 OR IT180 OR EQUIVALENT
() ISOLA-FR408HR OR EQUIVALENT
() ISOLA IS410
() MEGTRON 6
() NELCO-4000-13
() ROGERS 4350B
() ROGERS 3003
() ARLON 85N
() EM370D
() OTHER _____
3. ALL LAMINATES & BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103.(TG>170 DEGC TD>300 DEGC) UL FLAMMABILITY RATING 94V-0. BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF UL796/UL796F.
4. REFER TO IPC-6010 SERIES, CLASS 2 FOR FABRICATION.WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2.
5. REFER TO LAMINATION DIAGRAM FOR OVERALL BOARD THICKNESS. TOLERANCE APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES. FINISHED THICKNESS MEASURED FROM TOP COPPER TO BOTTOM COPPER.
6. BOW & TWIST NOT TO EXCEED 0.0075 INCHES (0.75%) PER LINEAR INCH AND SHOULD BE MEASURED PER IPC-TM-650, METHOD 2.4.2.2.
7. ACCEPTABILITY PER ADI SPECIFICATION TST00115.

TOOLING:

8. IMPEDANCE REQUIREMENTS: IF NO STACKUP IS DEFINED, THE VENDOR IS ALLOWED TO ADJUST THE DIELECTRIC THICKNESS & TRACE WIDTHS TO MEET THE IMPEDANCE REQUIREMENT. IF SPECIFIED, THE VENDOR MUST MEET THE REQUIREMENTS LISTED IN THE IMPEDANCE TABLE. ANY ADJUSTMENT MADE TO THE DEFINED STACKUP, TRACE WIDTH & SPACING THAT IMPACT THE REQUIREMENTS MUST HAVE WRITTEN APPROVAL FROM ADI.
9. FILLET OPTIONS TO ENHANCE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS.
() FILLETS ALLOWED
(X) FILLETS NOT ALLOWED
10. THIEVING:
() VENDOR MAY ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS MAINTAINING A MINIMUM 0.100 INCH CLEARANCE FROM ALL COPPER FEATURES.
(X) VENDOR MAY NOT ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS.
11. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003 INCHES.

FINISH:

2. DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN 0.005 INCHES DTP, UNLESS SPECIFIED. MINIMUM BARREL PLATING OF 0.001 INCHES. PLATED HOLES SHALL NOT BE ROUGH OR IRREGULAR SO AS TO HINDER PROPER SOLDER WICKING. BARREL RELIEF ON SOLDERMASK ALLOWED IN UNFILLED VIA IN PAD HOLES.
13. PLATING SPECIFICATION:
(X) REFER TO LAMINATION DIAGRAM FOR FINISHED COPPER WEIGHT/THICKNESS REQUIREMENTS
THE STARTING COPPER WEIGHT/THICKNESS CAN VARY AS LONG AS THE FINISHED COPPER WEIGHT/THICKNESS IS NOT LESS THAN THE SPECIFIED VALUE.
14. SURFACE FINISH:
(X) IMMERSION GOLD (ENIG) 1.58-3.94 MICRO INCHES OVER 118-236 MICRO INCHES MIN. OF ELECTROLESS NICKEL PER IPC-4552
() OSP (ORGANIC SOLDERABILITY PRESERVATIVE)
() IMMERSION SILVER
() SOFT WIRE BONDABLE GOLD 30-50 MICRO INCHES OF SOFT WIRE
BONDABLE GOLD OVER 100-150 MICRO INCHES OF NICKEL
() EDGE CONNECTOR FINGERS ARE TO BE PLATED WITH 100 MICRO-INCHES(.0001'') OF LOW STRESS
NICKEL UNDER 30 MICRO-INCHES (.0003'') OF GOLD
() OTHER_____
15. SOLDERMASK:
SOLDERMASK OVER BARE COPPER OR BARE GOLD (BOTH SIDES) TO MEET IPC-SM-840.
IF PRESENT, DO NOT MODIFY SOLDERMASK DEFINED PADS (MASK OPENINGS LESS THAN COPPER PAD) WITHOUT APPROVAL.
(X) LPI
() OTHER_____
- COLOR
(X) GREEN
() OTHER_____
16. APPLY SILKSCREEN TO BOTH SIDES USING A NON-CONDUCTIVE, EPOXY BASED INK PER ARTWORK.
(X) WHITE
() OTHER

IMPEDANCE TOLERANCE: +/-10%				
LAYER	50 OHM TRACE WIDTH	REFERENCE LAYER	100 OHM TRACE WIDTH/SPACE	REFERENCE LAYER
TOP	0.01020	L2_GND	0.00700/0.00550	L2_GND
L4_SIG	0.00750	L3_PWR, L5_GND	-	-
BOTTOM	0.01020	L5_GND	0.00700/0.00550	L5_GND

NOTE: DO NOT EDIT THIS TABLE MANUALLY:USE IMPEDANCE TABLE GENERATOR FROM ADI Tools

TESTING :

17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-356A NETLIST OR ODB++ FORMAT FILE.
THE PCB SHALL HAVE A VERIFICATION STAMP.
18. A TIME DOMAIN REFLECTOMETER REPORT (TDR) FOR EACH IMPEDANCE CONTROLLED LAYER & A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED BY VENDOR AT TIME OF SHIPMENT. INSTANCES WHERE TDR TESTING CAN'T BE PERFORMED BECAUSE THE TRACE LENGTH IS TOO SHORT ON THE OUTER LAYERS AT THE PIN ESCAPES IS ACCEPTABLE. ALL OTHER INSTANCES MUST BE REPORTED.
- MISCELLANEOUS:
19. IF PRESENT, ALL BLIND/BURIED VIAS WITH AN ASPECT RATIO <1:1 TO BE PLATED SHUT WITH COPPER WHEN USED AS VIA-IN-PAD OR AS A STACKED VIA. BLIND/BURIED VIAS WITH AN ASPECT RATIO >1:1 TO BE FILLED WITH NON-CONDUCTIVE EPOXY.
20. FOR VIA FILL INFORMATION REFER TO DRILL CHART:
(X) NON-CONDUCTIVE EPOXY FILL ALL 0.010 and 0.008 INCHES BLIND VIAS
() COPPER FILL ALL 0.XXXX INCHES DRILLED VIAS
21. INTENTIONAL SHORTS:
IF AN INTENTIONAL SHORT REPORT IS SUPPLIED AND DOES NOT MATCH THE FAB DATA THEN ADI APPROVAL IS REQUIRED.
22. PEMNUTS:
() PEMNUTS TO BE INSTALLED BY FABRICATOR
() PEMNUTS NOT TO BE INSTALLED BY FABRICATOR
(X) NOT APPLICABLE
23. MANUFACTURER TO ETCH/STAMP WITH PERMANENT NON-CONDUCTIVE INK
ON SECONDARY SIDE UNLESS OTHERWISE SPECIFIED:
A. UL CODE-FLAMMABILITY RATING FOR THOSE APPROVED MATERIALS(IF APPLICABLE)
B. DATE CODE
C. LOT NUMBER
D. MANUFACTURER LOGO
25. PANELIZATION:
BOARDS TO BE SHIPPED IN ARRAY AND KEPT INTACT
PANEL TO BE SUBJECTED TO CUSTOMERS APPROVAL
PANEL SOLDER PASTE STENCIL GERBER TO BE PROVIDED TO ANALOG
27. MINIMUM DESIGN LINE WIDTH IS .007 INCH.
28. MINIMUM DESIGN LINE SPACING IS .005 INCH.
- FAB NOTES REVISION: 2ND NOVEMBER 2022


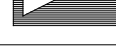
HOLE TOLERANCE

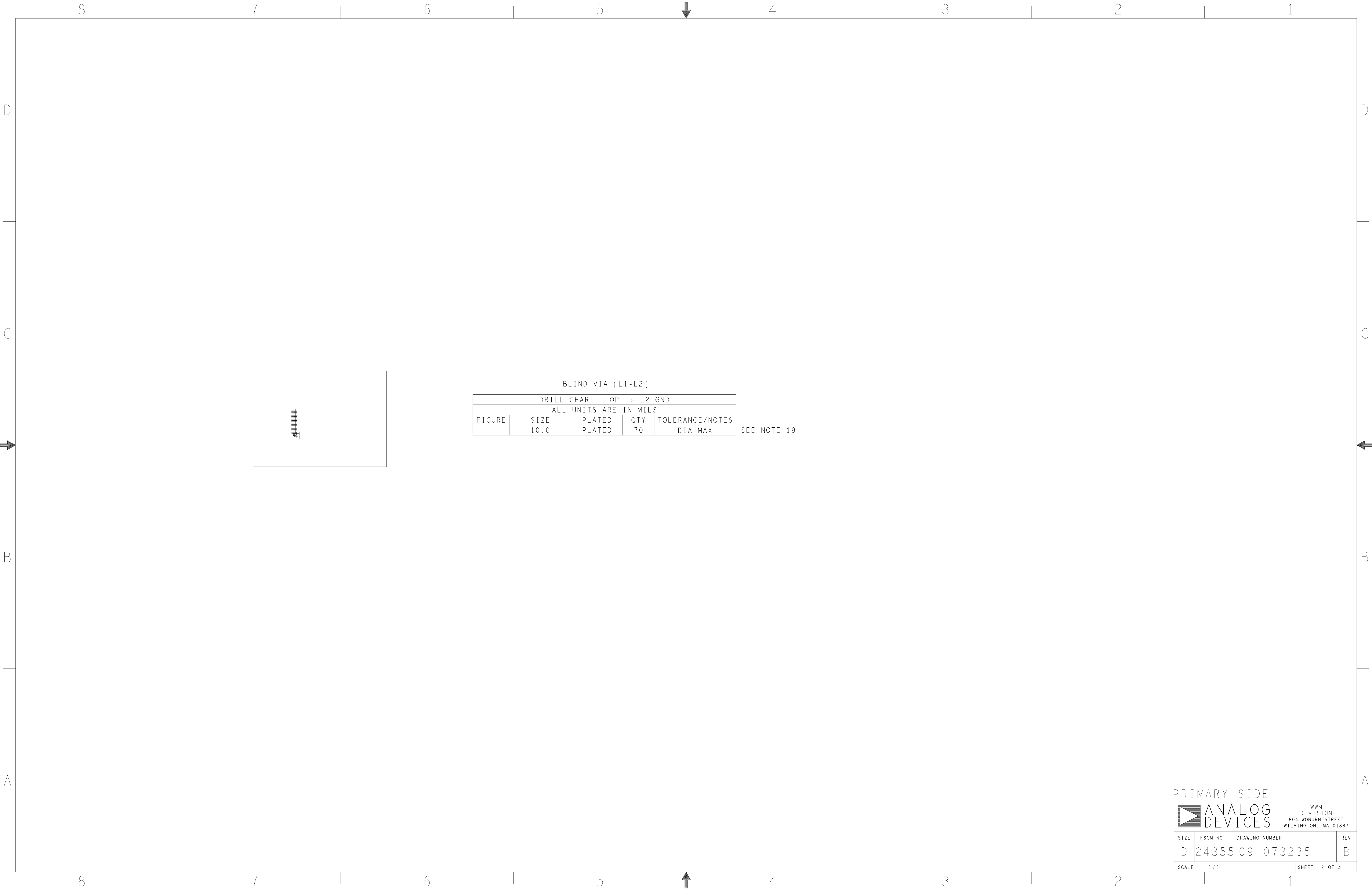
UNLESS SPECIFIED
PLATED: +/- 3 MILS
NON PLATED: +/- 2 MIL

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
○	8.0	PLATED	95	DIA MAX
+	10.0	PLATED	722	DIA MAX
□	30.0	PLATED	5	
△	35.0	PLATED	10	
○	40.0	PLATED	4	
◇	43.0	PLATED	6	
○	60.0	PLATED	2	
□	125.0	PLATED	4	+2/-0
A	41.0	NON-PLATED	1	
B	43.0	NON-PLATED	1	+2/-0
C	61.0	NON-PLATED	1	
D	63.0	NON-PLATED	1	
E	125.0	NON-PLATED	2	
F	126.0	NON-PLATED	2	
□	98.0x39.0	PLATED	1	
□	118.0x39.0	PLATED	1	
□	138.0x39.0	PLATED	1	

SEE NOTE 20
SEE NOTE 20

PRIMARY SIDE

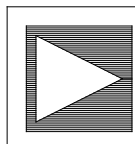
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			APPROVAL	DATE	 ANALOG DEVICES		WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
TOLERANCES			TEMPLATE ENGINEER					
DECIMALS	FRACTIONS	ANGLES	HARDWARE SERVICES M. VALE	09FEB23				
XX --.010	--1/32	-- 2	HARDWARE SYSTEMS					
XXX --.005					TITLE FABRICATION ADMV9611/ADMV9621 60GHz WIRELESS CONNECTOR CUSTOMER EVAL BOARD Z			
XXXX --.0050								
MATERIAL			TEST ENGINEER		SIZE FSCM NO DRAWING NUMBER REV			
			COMPONENT ENGINEER N. CATALAN	09FEB23				
			TEST PROCESS					
			HARDWARE RELEASE K. JABATAN	09FEB23	D 24355 09-073235 B			
FINISH			DESIGNER J. MALAYBA	09FEB23	DO NOT SCALE DWG			
			PTD ENGINEER APOPD	09FEB23				
			CHECKER					
DO NOT SCALE DWG					SCALE		1/1	
							SHEET 1 of 3	

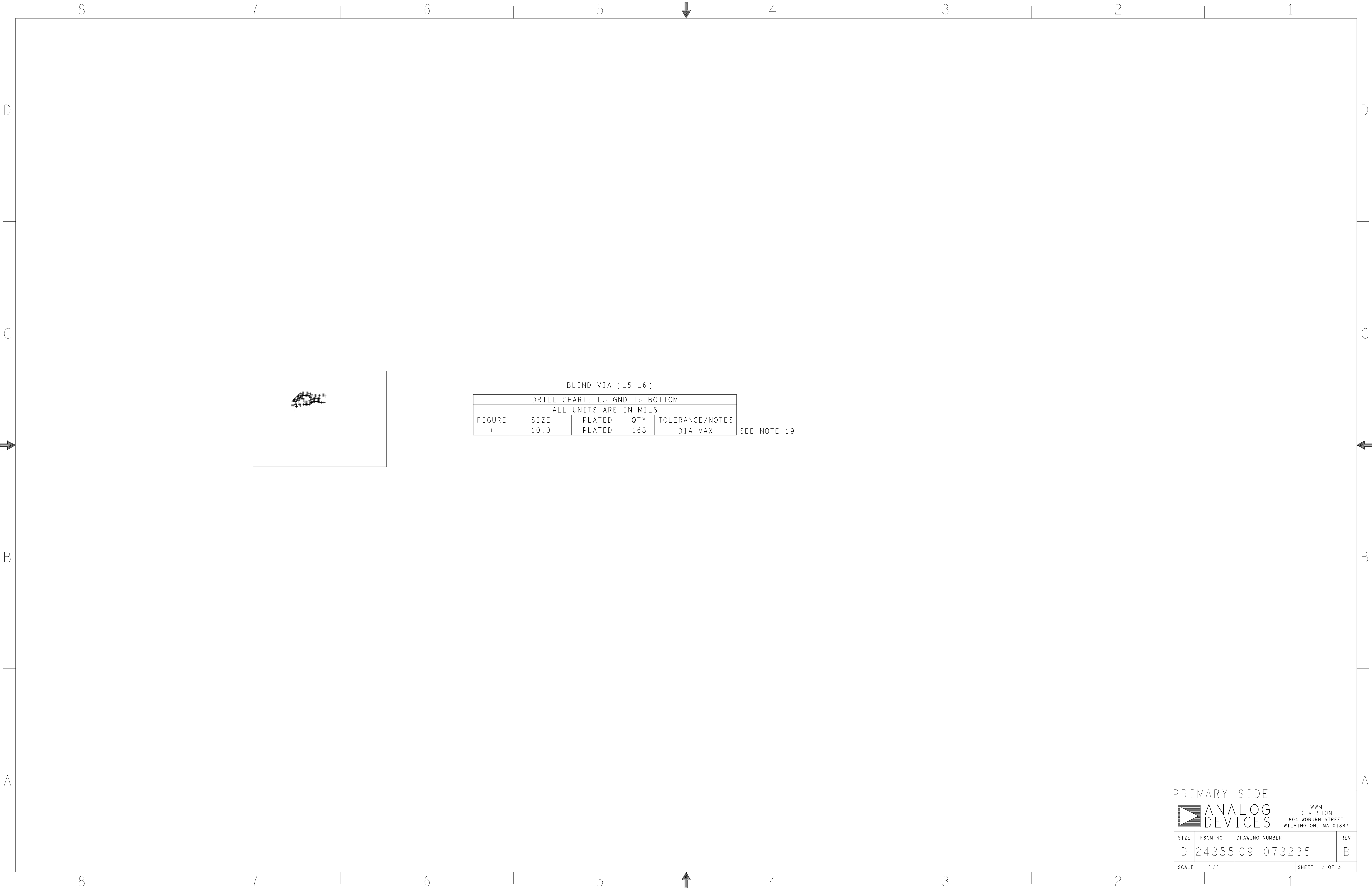


BLIND VIA (L1-L2)				
DRILL CHART: TOP to L2_GND				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
+	10.0	PLATED	70	DIA MAX

SEE NOTE 19

PRIMARY SIDE

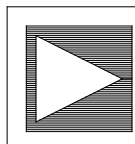
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SIZE	FSCM NO	DRAWING NUMBER	REV
D	24355	09-073235	B
SCALE	1/1	SHEET 2 OF 3	



BLIND VIA (L5-L6)				
DRILL CHART: L5_GND to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	PLATED	QTY	TOLERANCE/NOTES
+	10.0	PLATED	163	DIA MAX

SEE NOTE 19

PRIMARY SIDE

		ANALOG DEVICES		WWM DIVISION 804 WOBURN STREET WILMINGTON, MA 01887	
SIZE	FSCM NO	DRAWING NUMBER			REV
D	24355	09-073235			B
SCALE 1/1		SHEET 3 OF 3			