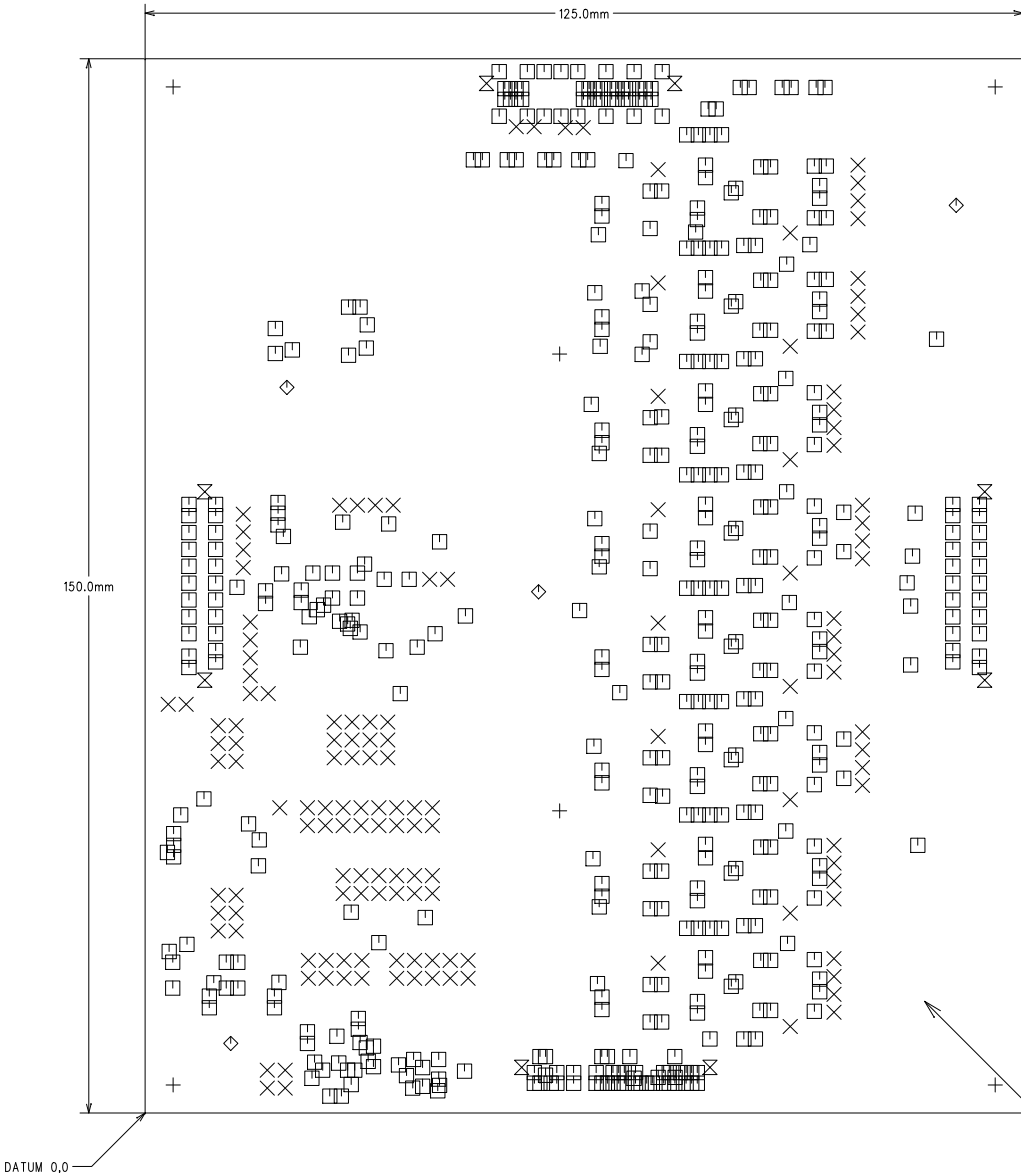


NOTES: UNLESS OTHERWISE SPECIFIED.

1. MILLIMETRES ARE CONTROLLING DIMENSIONS FOR DRAWINGS AND SUPPLIED DATA. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M. DIMENSIONS APPLY AFTER ETCHING AND PLATING.
2. FABRICATE PER IPC-6011/6012 (CURRENT REVISION) CLASS 2 USING SUPPLIED MASTER GERBER FILE "505-11541-Z1-REV-A-ASY.zip".
3. MATERIALS:
- A. 180 Tg/ 340 Td ISOLA FR-370HR OR EQUIVALENT IS RECOMMENDED. MATERIAL MUST MEET OR EXCEED UL FLAMMABILITY RATING 94V-0. ALL MATERIALS SHALL BE ENVIRONMENTALLY COMPLIANT.
- B. COPPER FOIL TO BE IN ACCORDANCE WITH IPC-MF-150. UNLESS OTHERWISE SPECIFIED, COPPER WEIGHT LISTED IN LAYER SCHEDULE IS CONSIDERED "FINISHED".
4. FINISH:
- A. ALL EXPOSED CONDUCTIVE PATTERN AREAS NOT COVERED WITH SOLDERMASK OR OTHER PLATING SHALL BE PLATED AS OPTION 1.
- 1 IMMERSION GOLD (ENIG).
- 2 HARD GOLD - 1.27 µM GOLD OVER 5.08 µM NICKEL.
- B. APPLY SOLDER MASK COLOUR - BLUE PER OPTION 2 PER IPC-SM-840 (CURRENT VERSION) OVER BARE COPPER. ONLY SOLDER MASK IMAGES THAT ARE A 1:1 FILM IMAGE WHEN COMPARED TO THE COMPONENT PADS MAY BE ENLARGED. IMAGES SHALL NOT BE ENLARGED BEYOND 0.075mm PER SIDE OR 0.15mm OVERALL. ALL OTHER SOLDER MASK IMAGES SHALL NOT BE ENLARGED.
- 1 LIQUID PHOTO IMAGEABLE SOLDER MASK (LPI).
- 2 LASER DIRECT IMAGING SOLDER MASK (LDI) MATTE FINISH.
- C. SILKSCREEN SHALL BE WHITE, PERMANENT, ORGANIC, NON-CONDUCTIVE INK. THERE SHALL BE NO SILKSCREEN ON ANY SOLDERABLE COMPONENT PAD. CLIPPING IS PERMITTED USING SOLDERMASK IMAGES.
5. DRILLS:
- A. PLATED: NO ANNULAR RING BREAKOUT IS ALLOWED. ANNULAR RING TANGENCY IS PERMITTED. SUPPLIER MAY ADD FILLETS OR EQUIVALENT TO ALL DRILLED PADS. SUPPLIER MAY DELETE ALL UNUSED INNER LAYER PADS.
- B. NON-PLATED: SUPPLIER MAY DELETE UNUSED COPPER PADS.
6. IMPEDANCE CONTROL REQUIREMENTS:
- SEE IMPEDANCE CHARTS FOR SIGNAL CONTROL. TOLERANCE MUST FALL WITHIN 10% OHMS. THE WIDTHS OF THE TRACES AND THE DIELECTRIC THICKNESS OF EACH LAYER MAY BE ADJUSTED AS NEEDED IN ORDER TO ACHIEVE THE REQUIRED IMPEDANCE. CIRRUS LOGIC MUST BE NOTIFIED OF ANY MODIFICATIONS MADE TO SUPPLIED DATA, OR WILL SUPPLY PROPERLY MODIFIED DATA AS APPROPRIATE.
7. MARKING:
- A. BOARD SUPPLIER SHALL APPLY UL RECOGNIZED VENDOR ID, DATE CODE, AND UL MATERIAL FLAMMABILITY RATING IN SILKSCREEN ON THE SECONDARY SIDE, CLEAR OF OTHER FEATURES OR LABELED AREAS.
8. TEST REQUIREMENTS:
- A. 100% NETLIST ELECTRICAL VERIFICATION USING SUPPLIED IPC-D-356 NETLIST FOR OPENS AND SHORTS, SEE README.TXT FILE FOR LIST OF FILES.
- B. FINISHED BOARD SHALL MEET UL FLAMMABILITY RATING OF 94V-0.
9. TOLERANCES:
- A. WARP OR TWIST OF BOARD SHALL NOT EXCEED 1x.
- B. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN 0.025mm OF SUPPLIED GERBER DATA.
- C. REMOVE ALL BURRS AND BREAK SHARP EDGES 0.381mm MAXIMUM.
- D. CONTROLLED IMPEDANCE: SEE NOTE 6 IF APPLICABLE. N/A
- E. ALL DIMENSIONAL DATA TOLERANCE TO BE +/- 0.1 mm.
10. THIEVING:
- A. FABRICATOR MAY ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.
11. PACKAGING:
- A. SUPPLIER SHALL FURNISH A CERTIFICATE OF COMPLIANCE (C OF C) WITH EACH SHIPMENT STATING THAT THE ARTICLES SHIPPED HAVE BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE DRAWING REQUIREMENTS AND ALL REFERENCED SPECIFICATIONS AND STANDARDS. THE C OF C SHALL INCLUDE, AS A MINIMUM, THE CIRRUS LOGIC PART NUMBER AND WHEN APPLICABLE, THE CONTRACT MANUFACTURER'S PART NUMBER, REVISION, PO NUMBER, AND THE SUPPLIERS LOT ID AND DATE CODE FOR EACH SHIPMENT.



6

SINGLE ENDED IMPEDANCE CHART				
GERBER FILE	LAYER	IMPEDANCE (OHMS)	TRACE WIDTH (MM)	REFERENCE LAYER(S)
240-11541-Z1.L01.GBR	L01	50	0.140	L02
240-11541-Z1.L03.GBR	L03	50	0.150	L02/L04

ECO#	REV	DESCRIPTION	INC BY/DATE	CHK BY/DATE
	A	INITIAL DESIGN	C.MURRAY 18th Dec 2023	C.McADAM 18th Dec 2023

LAYER SCHEDULE

GERBER FILE NAME	ID	LAYER DESCRIPTION	FINISHED Cu WT	THICKNESS (MM)
240-11541-Z1.SSA.GBR		SILKSCREEN, PRIMARY (A) SIDE		
240-11541-Z1.SMA.GBR		SOLDER MASK, PRIMARY (A) SIDE		
240-11541-Z1.L01.GBR	L01	PRIMARY (A) SIDE	1 1/4 OZ.	
240-11541-Z1.L02.GBR	L02	PLANE GND	1 OZ.	
240-11541-Z1.L03.GBR	L03	PLANE/SIGNAL	1 OZ.	
240-11541-Z1.L04.GBR	L04	PLANE GND	1 OZ.	
240-11541-Z1.L05.GBR	L05	PLANE PWR	1 OZ.	
240-11541-Z1.L06.GBR	L06	PLANE PWR	1 OZ.	
240-11541-Z1.L07.GBR	L07	PLANE GND	1 OZ.	
240-11541-Z1.L08.GBR	L08	SECONDARY (B) SIDE	1 1/4 OZ.	
240-11541-Z1.SMB.GBR		SOLDER MASK, SECONDARY (B) SIDE		
240-11541-Z1.SSB.GBR		SILKSCREEN, SECONDARY (B) SIDE		

SIZE	QTY	SYM	PLATED	THR/PRTL	TOL
0.25	494	□	YES	THR	+0/-0.25
1.016	145	×	YES	THR	+/-0.075
1.0668	4	◇	YES	THR	+/-0.075
1.5	8	⊠	NO	THR	+/-0.05
3.7	6	+	NO	THR	+/-0.05

NOTE 7

PART #	240-11541-Z1
REV A	
DESCRIPTION: PCB DC4308P-DAC	
DRAWN BY: C.MURRAY	ENGINEER: C.McADAM
DATE: 18th Dec 2023	SIZE B SHEET 1 OF 1