ART FILM - detail

P/N	SH	REV
610-90781-01	1	3.0

REVISIONS

ECO NO.	REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
ISAB-1	1.0	03/06/23	INITIAL RELEASE	LIKZ	ISAB	ISAB
DEDA-23	2.0	07/26/23	SCH MODIFICATION	JYUN	DEDA	DEDA
SERGIO-2	3.0	08/10/23	RENAME FROM 600-90802-01 REV2.0	JYUN	SERGIO	SERGIO

NOTES: UNLESS OTHERWISE SPECIFIED

1. SPECIFICATIONS/TOLERANCES:
   A. FABRICATE PER IPC-6012, CLASS 2, USING PROVIDED DATA FILES
   B. ALL SPECIFICATIONS USED SHALL BE PER THEIR LATEST REVISIONS.
   C. THE DIMENSIONS OF CIRCUIT FEATURES IN THE PROVIDED DATA MAY BE ADJUSTED ONLY TO COMPENSATE FOR PROCESS TOLERANCES; ADDING, REMOVING OR RELOCATING CIRCUIT FEATURES, INCLUDING NON-FUNCTIONAL PADS, IS NOT ALLOWED, AND THE DESIGN OF ALL PLANE STRUCTURES MUST BE MAINTAINED TO ENSURE PROPER ELECTRICAL PERFORMANCE.
   D. REMOVE ALL BURRS AND BREAK SHARP EDGES, .381 [.015] MAX RADIUS.
   E. PARENTHETICAL INFORMATION IS FOR REFERENCE ONLY.
   F. REPAIR OF PCB DEFECTS IS NOT PERMITTED.

2. DIELECTRIC MATERIAL:
   A. DIELECTRIC MATERIAL SHALL BE PER IPC-4101/99, /124, /126 OR /129 (RoHS COMPLIANT EPOXY-GLASS).
   B. MINIMUM DIELECTRIC THICKNESS SHALL BE .051 [.002] FOR REFERENCED STACK-UP DIMENSIONS OF.076 [.003] OR GREATER; IPC-6012 REQUIREMENTS SHALL OTHERWISE APPLY. SINGLE-PLY CONSTRUCTION IS ALLOWED.
   C. SEE LAYER STACK-UP FOR REQUIRED COPPER WEIGHTS AND THE FINISHED PCB THICKNESS. IF SPECIFIED, 1/3 OZ. STARTING FOIL MAY BE ACHIEVED BY 1/2 OZ. FOIL REDUCTION.
   D. FINISHED PCB THICKNESS SHALL BE MEASURED OVER LANDS AND/OR CONDUCTORS NOT COVERED BY SOLDER MASK.

3. DRILLING:
   A. VIA DIAMETERS (TOL. = +.051/- DRILL DIAMETER [+.0020/- DRILL DIAMETER]) SHALL BE VERIFIED BEFORE PLATING; ALL OTHER HOLE DIAMETERS SHALL BE VERIFIED AT FINAL INSPECTION.
   B. LAYER-TO-LAYER MISREGISTRATION SHALL BE .127 [.005] MAXIMUM.
   C. FILL ALL THRU VIAS USING NON-CONDUCTIVE EPOXY AND OVERPLATE WITH COPPER,.005[.0002] MINIMUM THICKNESS. DIMPLE DEPTH IN BGA PADS SHALL BE .025 [.001] MAXIMUM. THE PRESENCE OF WRAP PLATING SHALL BE VISUALLY EVIDENT IN ALL QUALITY CONFORMANCE MICROSECTIONS; NO MINIMUM MEASUREMENT REQUIRED.
   D. FILL ALL MICROVIAS WITH COPPER PLATING OR NON-CONDUCTIVE EPOXY; DIMPLE DEPTH IN BGA PADS SHALL BE .025 [.001] MAXIMUM. FOR EPOXY FILL, OVERPLATE WITH COPPER, .005 [.0002] MINIMUM AND THE PRESENCE OF WRAP PLATING SHALL BE VISUALLY EVIDENT IN ALL QUALITY CONFORMANCE MICROSECTIONS; NO MINIMUM MEASUREMENT REQUIRED.

4. SOLDER MASK:
   A. APPLY LPI SOLDER MASK USING PROVIDED DATA.
   B. SOLDER MASK SHALL BE PER IPC-SM-840, CLASS T, COLOR BLACK.
   C. THE DIMENSIONS OF SOLDER MASK-DEFINED PADS ON PLANES AND/OR WIDE CONDUCTORS SHALL NOT BE MODIFIED.

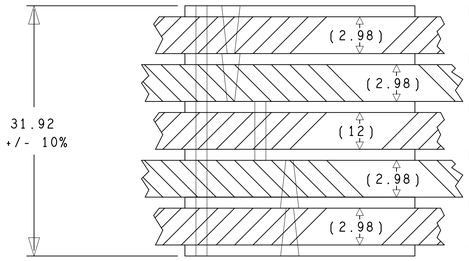
5. MARKING:
   A. MARK PCB PER PROVIDED DATA USING SILKSCREEN OR AUTOMATED INJET PROCESSING WITH PERMANENT, NON-CONDUCTIVE INK, COLOR WHITE.
   B. SUPPLIER ID AND TRACEABILITY INFORMATION SHALL BE APPLIED USING PERMANENT, NON-CONDUCTIVE INK, COLOR WHITE.
   C. INK SHALL NOT BE APPLIED TO ANY SOLDERABLE SURFACE.

6. ELECTRICAL TEST:
   A. DESIGN VERIFICATION SHALL BE DONE PRIOR TO PCB FABRICATION USING SUPPLIED VALOR ODB++ DATABASE, OR GERBER DATA AND AN IPC-D-356 NETLIST.
   B. ALL PCBS SHALL BE 100% ELECTRICALLY TESTED FOR OPENS AND SHORTS USING PROVIDED DATA.
   C. APPLY TEST STAMP IN NON-LEGEND AREA ON REAR SIDE OF PCB; OK TO APPLY TO PANEL RAILS IF SPACE DOES NOT PERMIT.

7. FINAL FINISH:
   A. FINAL FINISH ON ALL EXPOSED CONDUCTORS SHALL BE 2 MICROINCHES GOLD IMMERSION.
   B.FINAL FINISH ON ALL THE GOLD FINGER BEVEL DEFAULT VALUE : 20 DEGREES, DEPTH : 11.8 MILS. FINAL FINISH ON ALL EXPOSED GOLD FINGER SHALL BE 30 MICROINCHES HARD GOLD PLATED.

8. IMPEDANCE:
   A. IMPEDANCE TOLERANCE SHALL BE +/- 10%.
   B. SEE LAYER STACK-UP FOR IMPEDANCE REQUIREMENTS.

9. IF PANELIZATION SPECIFICATIONS ARE PROVIDED, THE PCBS SHALL BE DELIVERED IN PANEL FORM. HOWEVER, THESE SPECIFICATIONS MAY BE CHANGED AS REQUIRED BY THE CONTRACT MANUFACTURER TO SUPPORT VOLUME ASSEMBLY REQUIREMENTS.



LAYER DESCRIPTION	START COPPER WT	SE IMP OHMS	SE TRACE WIDTH	REF LAYER	CPW SPACE	DIFF IMP OHMS	DIFF TRACE WIDTH/SPACE	REF LAYER	CPW SPACE
L01 - TOP	0.7+1.6MIL	50 50	4.8MIL(0.12MM) 10.5MIL(0.27MM)	L2 L3	------	---	.-----/.-----	---	------
L02 - PLANE	1.1MIL	--	-----	---	------	---	----	---	------
L03 - SIGNAL	1.1MIL	50	3.8MIL(0.097MM)	L2	------	---	.-----/.-----	---	------
L04 - PLANE	1.1MIL	50	3.8MIL(0.097MM)	L5	------	---	.-----/.-----	---	------
L05 - SIGNAL	1.1MIL	--	-----	---	------	---	----	---	------
L06 - BOTTOM	0.7+1.6MIL	50	4.8MIL(0.12MM)	L5	------	---	.-----/.-----	---	------

STACK-UP (UNITS IN MILS)

FAB NOTES REV 08/01/14

SEE BOM	SEE BOM
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
WITH METRIC IN BRACKETS
.XXX ±.005 [±.064] .XX ±.01 [±.13] ANGLES ±.5°

MATERIAL 2

FINISH 7

DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN JYUN	08/10/23
ENGINEER SERGIO	08/10/23
CHECKER SERGIO	08/10/23
QA N/A	N/A
PROJ. ENG. N/A	N/A

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85579 NEUBIBERG - GERMANY

TITLE
PCB FABRICATION,
CYW955513SDCM2WLIPA

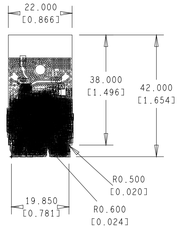
SIZE	CAGE CODE	P/N
D	-	610-90781-01

SCALE	SHEET	REV
1/1	1 OF 2	3.0

COMPUTER GENERATED DRAWING
DO NOT CHANGE MANUALLY

ART FILM - detail

P/N	SH	REV
610-90781-01	2	3.0



DRILL CHART: TOP to L04_SIG2				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.15	+0.05/-0.1	PLATED	5

DRILL CHART: TOP to L03_SIG1				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.1	+0.05/-0.1	PLATED	541

DRILL CHART: TOP to L02_GND				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.1	+0.05/-0.1	PLATED	446

DRILL CHART: L02_GND to L03_SIG1				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.1	+0.05/-0.1	PLATED	148

DRILL CHART: L03_SIG1 to L04_SIG2				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
•	0.15	+0.0762/-0.0762	PLATED	279

DRILL CHART: L04_SIG2 to L05_GND				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.1	+0.05/-0.1	PLATED	488

DRILL CHART: L05_GND to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
⊡	0.1	+0.05/-0.1	PLATED	478

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
•	0.1524	+0.0762/-0.0762	PLATED	569
·	0.2032	+0.0762/-0.0762	PLATED	50
	0.5	+0.05/-0.05	NON-PLATED	20
•	0.75	+0.0762/-0.0762	NON-PLATED	2
	3.5	+0.05/-0.05	NON-PLATED	1

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SIZE	CAGE CODE	P/N
D	_	610-90781-01
SCALE 1/1		SHEET 2 OF 2 / REV 3.0

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