NOTES: UNLESS OTHERWISE SPECIFIED

1. SPECIFICATIONS/TOLERANCES:
   A. FABRICATE PER IPC-6012, CLASS 2, USING PROVIDED DATA FILES 610-60627-01_01.TGZ OR 600-60627-01_01.ZIP.
   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 (FOLLOW DRILL CHART) 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.

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.

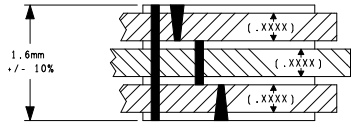
5. MARKING:
   A. MARK PCB PER PROVIDED DATA USING SILKSCREEN OR AUTOMATED INJET PROCESSING WITH PERMANENT, NON-CONDUCTIVE INK, COLOR WHITE.
   B. SUPPLIER ID AND TRACEABILITY INFORMATION SHALL BE APPLIED USING PERMANENT, NON-CONDUCTIVE INK, COLOR WHITE.
   C. INK SHALL NOT BE APPLIED TO ANY SOLDERABLE 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 SHALL BE ELECTROLESS NICKEL/IMMERSION GOLD (ENIG) PER IPC-4552.

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.TOOLING HOLE FIDUCIALS ARE REQUIRED AS PER STANDARD.



LAYER DESCRIPTION	START COPPER WT	SE IMP OHMS	SE TRACE WIDTH	REF LAYER	CPW SPACE
L01 - TOP	0.5 OZ	50E	8.27mil	L02_GND	-----
L02 - PLANE	1.0 OZ	--	-----	---	-----
L03 - PLANE	1.0 OZ	--	-----	---	-----
L04 - BOTTOM	0.5 OZ	50E	8.27mil	L03_PWR	-----

STACK-UP

FAB NOTES REV 04/05/17

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

SEE BOM	SEE BOM
NEXT ASSY	USED ON
APPLICATION	

MATERIAL 2

FINISH 7

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APPROVALS	DATE
DRAWN SRIRAMAN	06/22/22
ENGINEER TARE	06/22/22
CHECKER -	-
QA -	-
PROJ. ENG. -	-

Infineon technologies AG
Am Campeon 1-15
85579 NEUBIBERG - GERMANY

TITLE: PCB FABRICATION, EVAL-SXXXX SEMPER X4 SPI 24BGA

SIZE	CAGE CODE	CY P/N
D	-	610-60627-01

SCALE	SHEET	REV
1/1	1 OF 2	01

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ALLEGRO FILE: 600-60627-01_01.BRD



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILLIMETERS				
FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
-	0.25	+0.0508/-0.2032	PLATED	4
-	0.3	+0.0762/-0.0762	PLATED	30
•	1.1	+0.0762/-0.0762	PLATED	12

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SIZE	CAGE CODE	CY P/N
D	-	610-60627-01
SCALE 1/1		SHEET 2 / REV 01

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