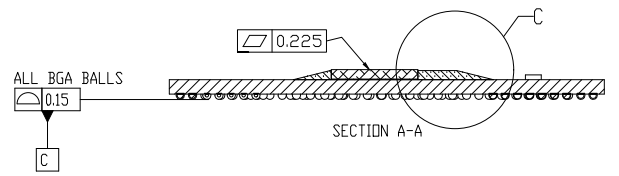
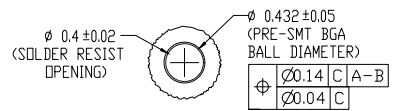
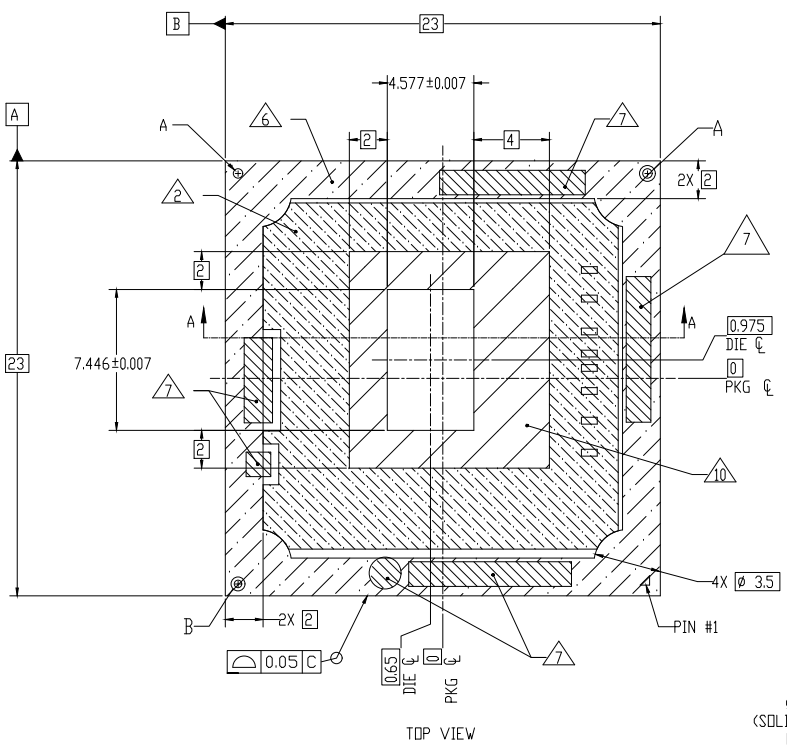
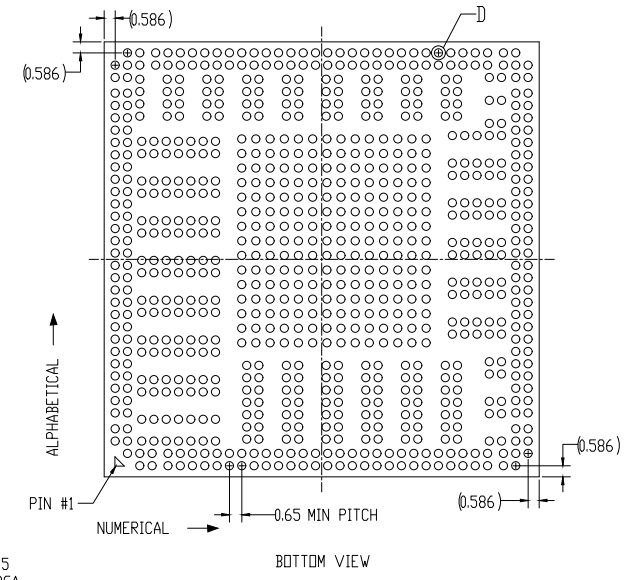
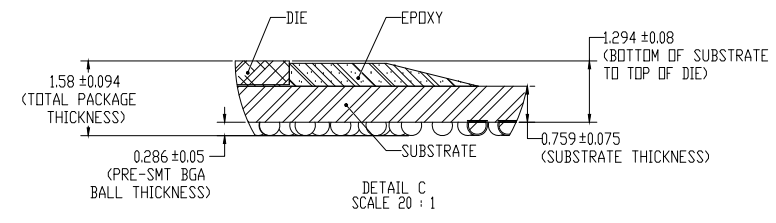
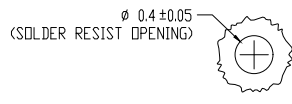


1. PACKAGE EXPECTED TO BE WITHIN HIGH TEMPERATURE BOTTOM SIDE FLATNESS RANGE OF -0.140 TO $+0.220$ mm.
2. DIE SIDE COMPONENT KEEP-IN ZONE. MAX COMPONENT HEIGHT = 0.25 mm.
3. THE DIE SIZE SHOWN IN THIS DRAWING IS THE PHYSICAL DIE SIZE.
4. ALL TOLERANCES ARE RSS (4σ) UNLESS OTHERWISE STATED.
5. ALL Z-STACK UP HEIGHT ESTIMATES ARE BASED ON PRE-SMT BGA BALL THICKNESS.
6. HANDLING EXCLUSION ZONE.
7. MARK KEEP-IN ZONE. NO COMPONENTS ALLOWED.
8. NOMINAL PACKAGE MASS ESTIMATE = 1.7 GRAMS. ACTUAL MASS MAY VARY DUE TO MANUFACTURING PROCESS.
9. ALL Z HEIGHT DIMENSIONS ARE BASED ON LIMITED SAMPLING DATA.
10. EPOXY KEEP-IN ZONE.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-2009.	DESIGNED BY	DATE	DEPARTMENT	altera 101 Innovation Dr San Jose, CA 95134
	DRAWN BY	DATE	TITLE	
	CHECKED BY	DATE	PACKAGE MECHANICAL DRAWING 23mm X 23mm, 795 BALLS	
	APPROVED BY	DATE	SIZE A1 DRAWING NUMBER N71824 SCALE: 8:1 DO NOT SCALE DRAWING	
MATERIAL:	THIRD ANGLE PROJECTION		REV	2
FINISH:	SEE NOTES		SHEET 1 OF 2	

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DWG. NO. N71824 SH. 2 REV. 2

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A

ZONE	REV	DESCRIPTION	DATE	APPR.
-	1	ENGINEERING RELEASE	1/31/2025	S. MCKINNEY
	2	REMOVED PRELIMINARY FLAGNOTE, UPDATED MASS, AND COPLANARITY	10/30/2025	AD

DEPARTMENT	altera.	101 Innovation Dr. San Jose, CA 95134.	SIZE A1	DRAWING NUMBER N71824	REV 2
SCALE: 5/1		DO NOT SCALE DRAWING		SHEET 2 OF 2	

8

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