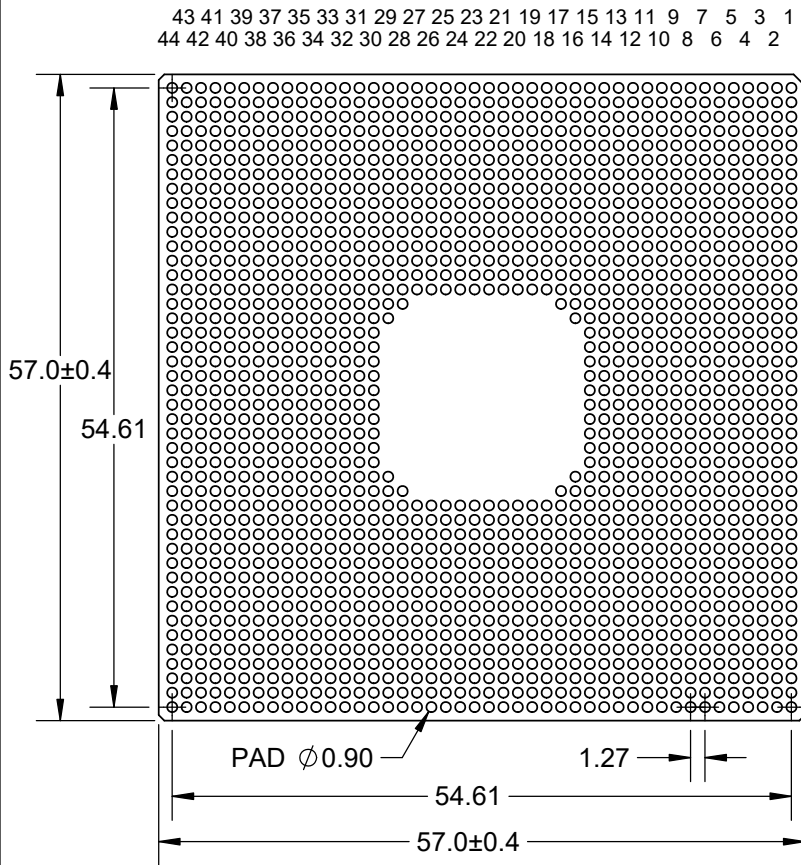
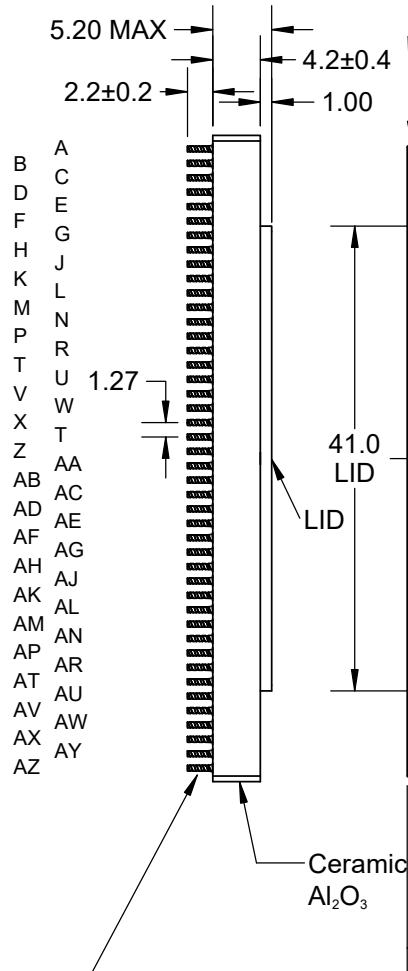


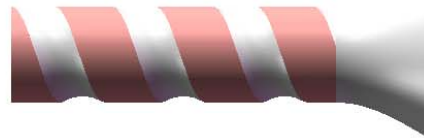
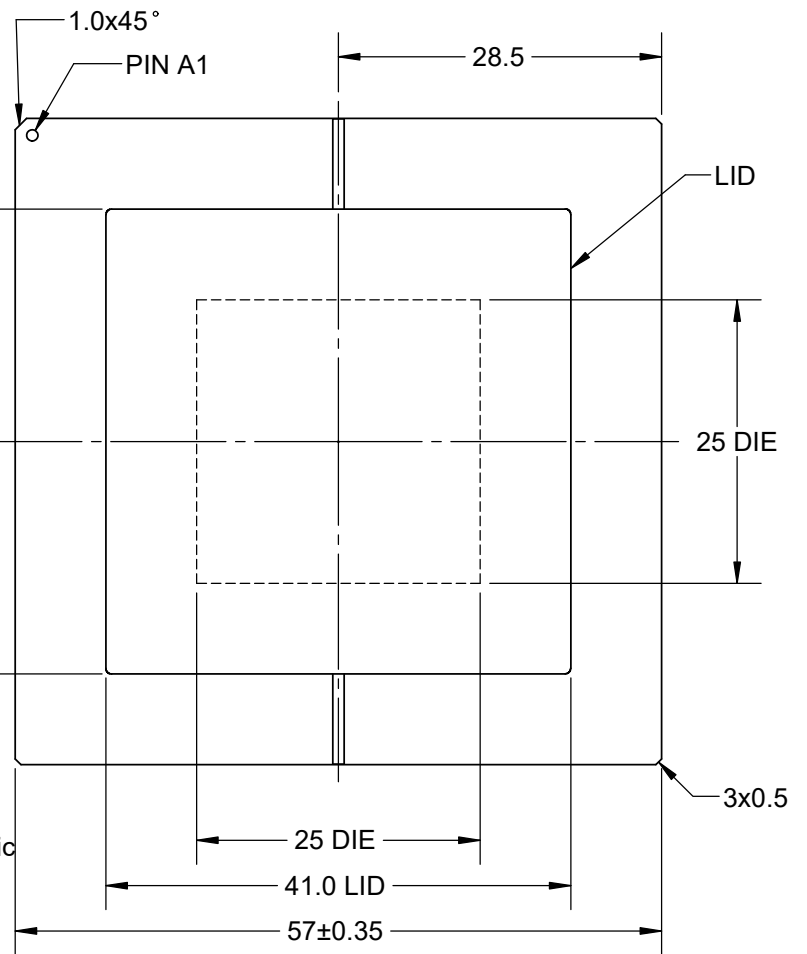
### BOTTOM VIEW



### SIDE VIEW




### TOP VIEW



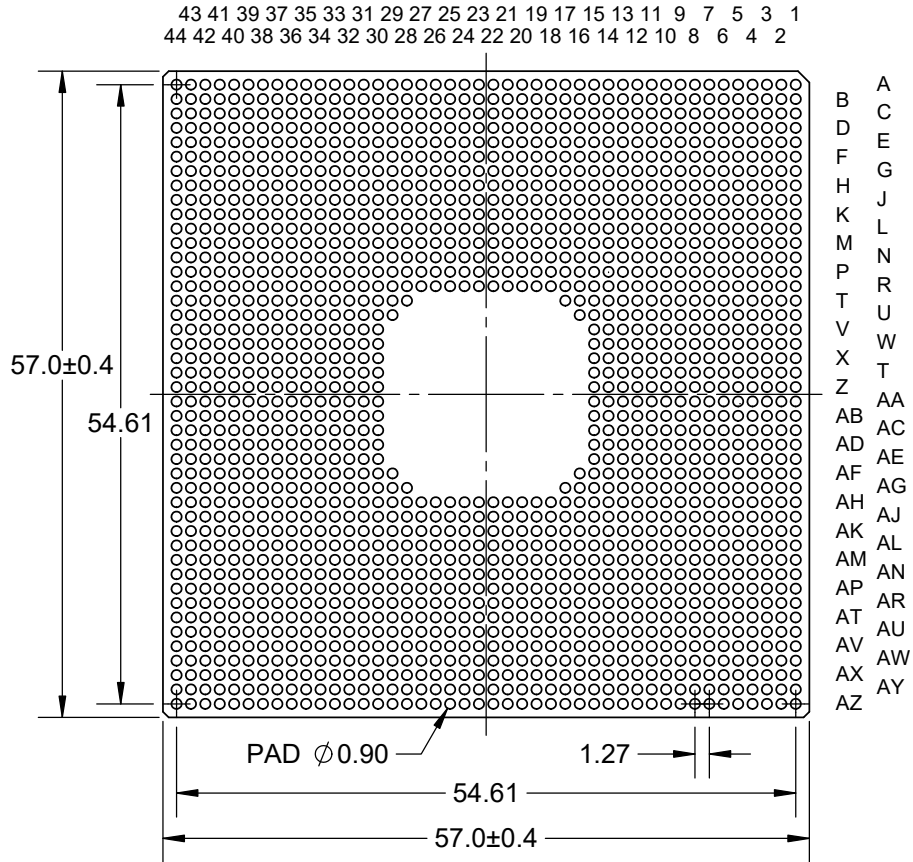
**Pb80/Sn20**  
Cu RIBBON  
COLUMNS  
SCALE=25:1

Notes: (Unless Otherwise Specified).

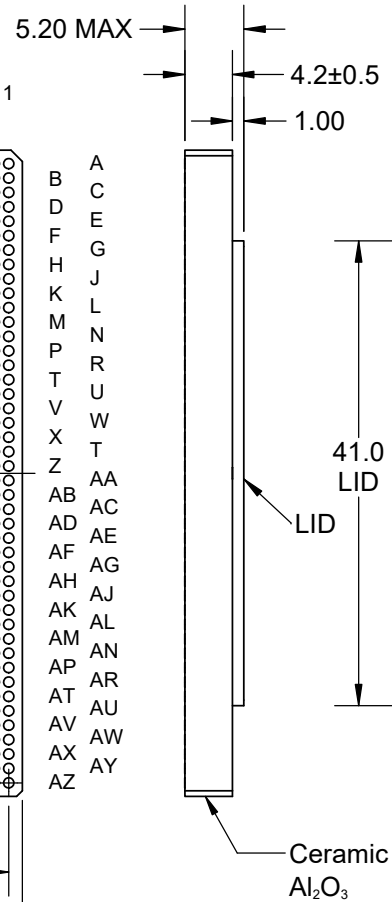
- 1) DIMENSIONS ARE IN mm.
- 2) SHOWN WITH Pb80/Sn20 RIBBON COLUMNS.

APPROVALS		DATE				
DRAWN	J. Hines	12/18/2016				
ENG	M. Hart	12/18/2016	MFG			
QA			SCALE	SIZE	DRAWING NO.	REV
CUST			1.5:1	A	160205	A
REVISED			DO NOT SCALE DRAWING			SHEET 1 OF 7

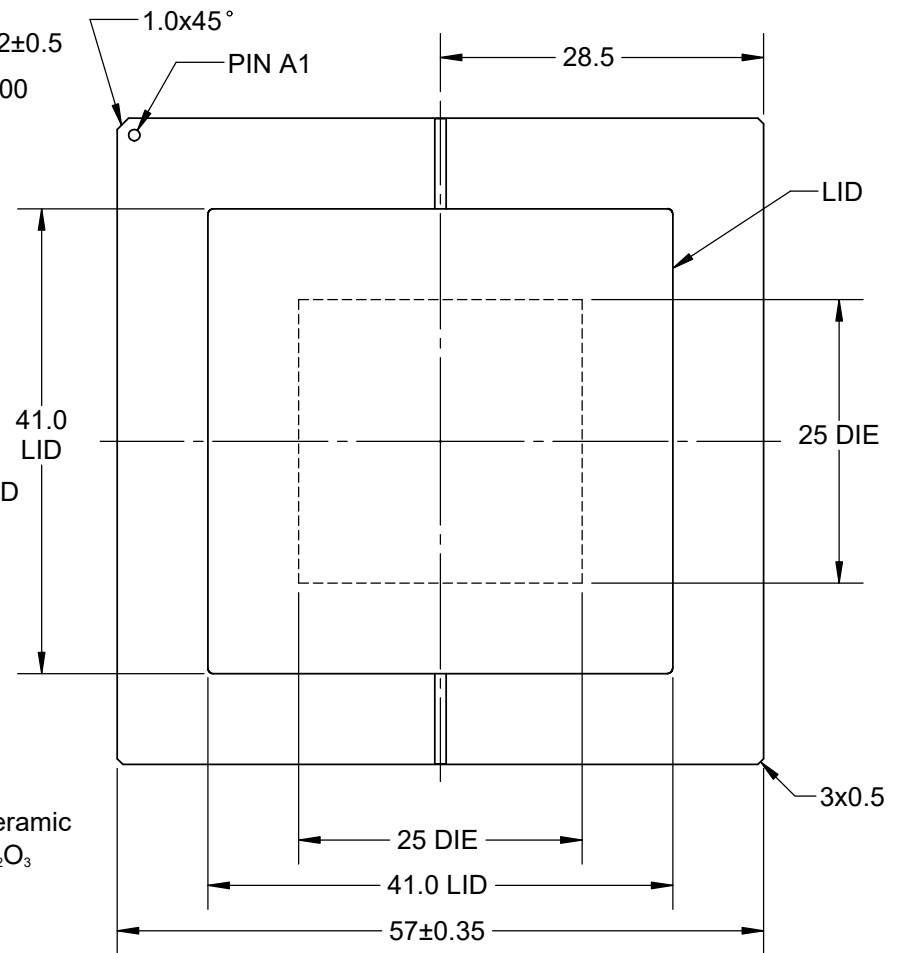
### BOTTOM VIEW



### SIDE VIEW



### TOP VIEW



Notes: (Unless Otherwise Specified).

- 1) DIMENSIONS ARE IN mm.
- 2) SHOWN WITHOUT COLUMNS.
- 3) SHOWN WITH LID COVER ATTACHED.

**TopLine**

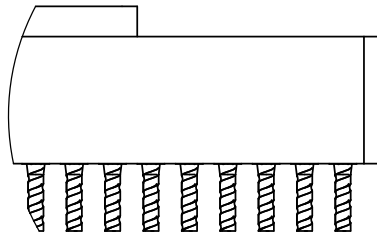
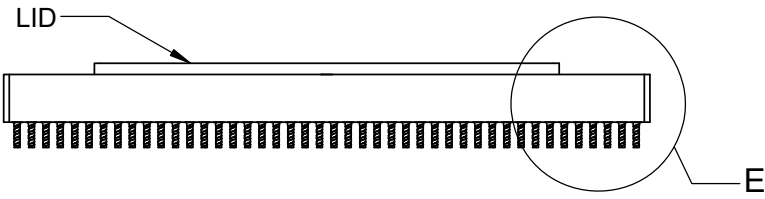
TITLE CCGA1752T1.27-44X44  
COLUMN GRID ARRAY

SCALE 1.5:1	SIZE A	DRAWING NO. 160205	REV A
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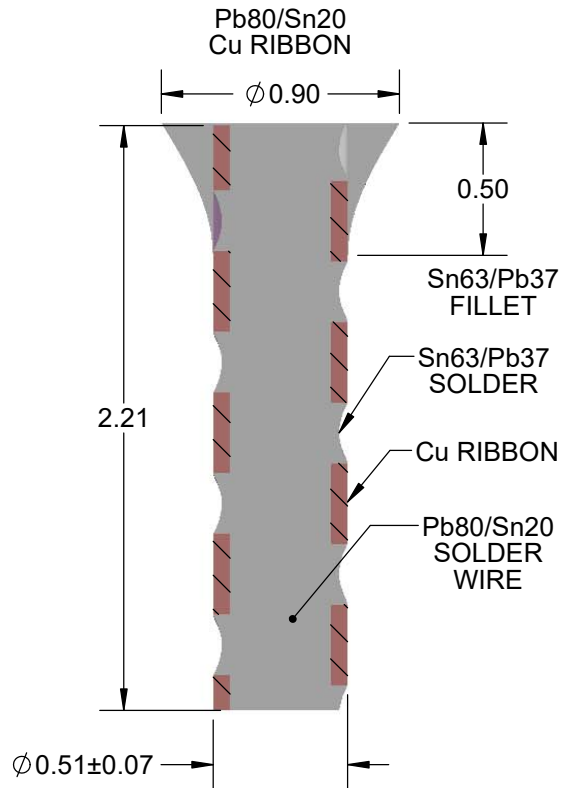
DO NOT SCALE DRAWING

SHEET 2 OF 7

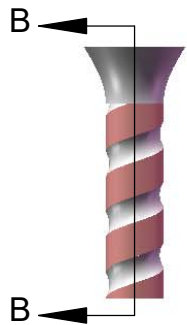
# SOLDER PIN OPTIONS



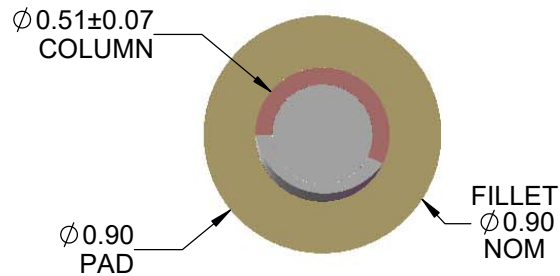
DETAIL E  
SCALE 4 : 1



SECTION B-B  
SCALE 35 : 1



Pb80/Sn20  
Cu RIBBON  
SCALE 15:1

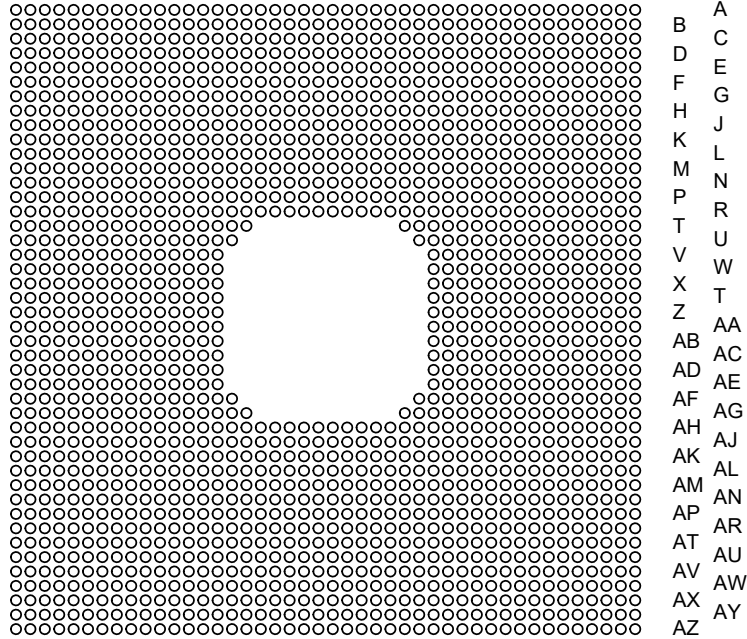


<b>TopLine</b> <sup>®</sup>			
TITLE		CCGA1752T1.27-44X44 COLUMN GRID ARRAY	
SCALE	SIZE	DRAWING NO.	REV
1.5:1	A	160205	A
DO NOT SCALE DRAWING			SHEET 3 OF 7

# MATRIX ARRAY

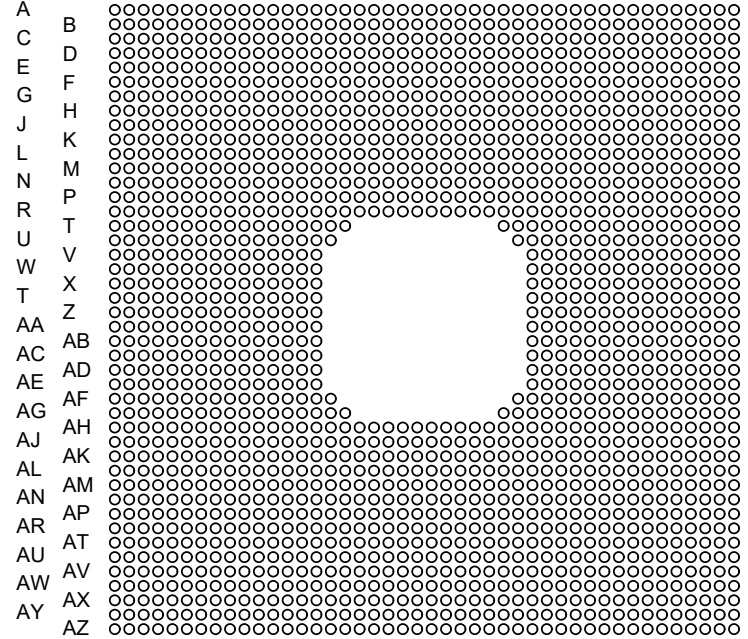
## COLUMN (PAD) VIEW

43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1  
 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2



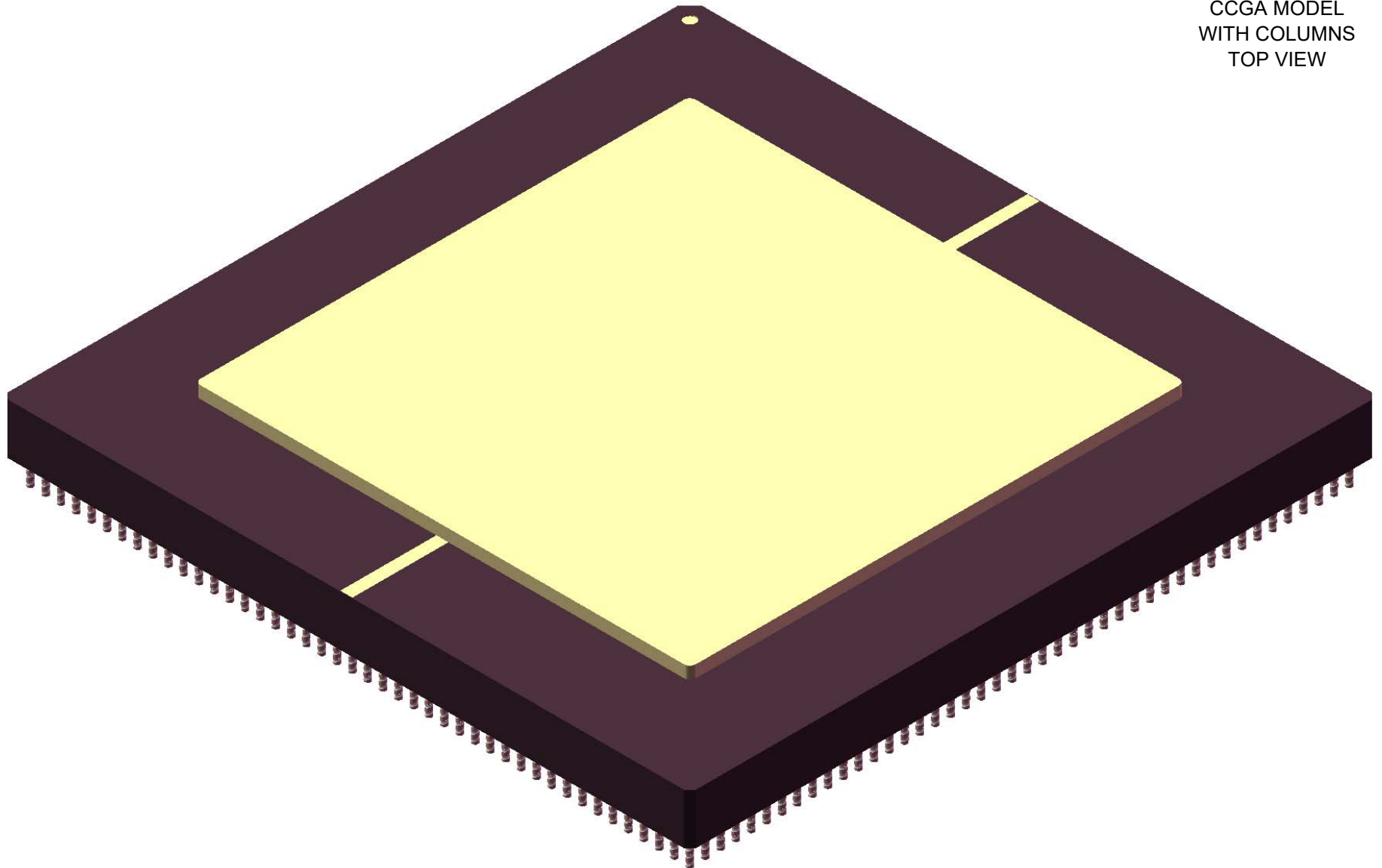
## BOTTOM X-RAY VIEWED FROM TOP

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43  
 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44



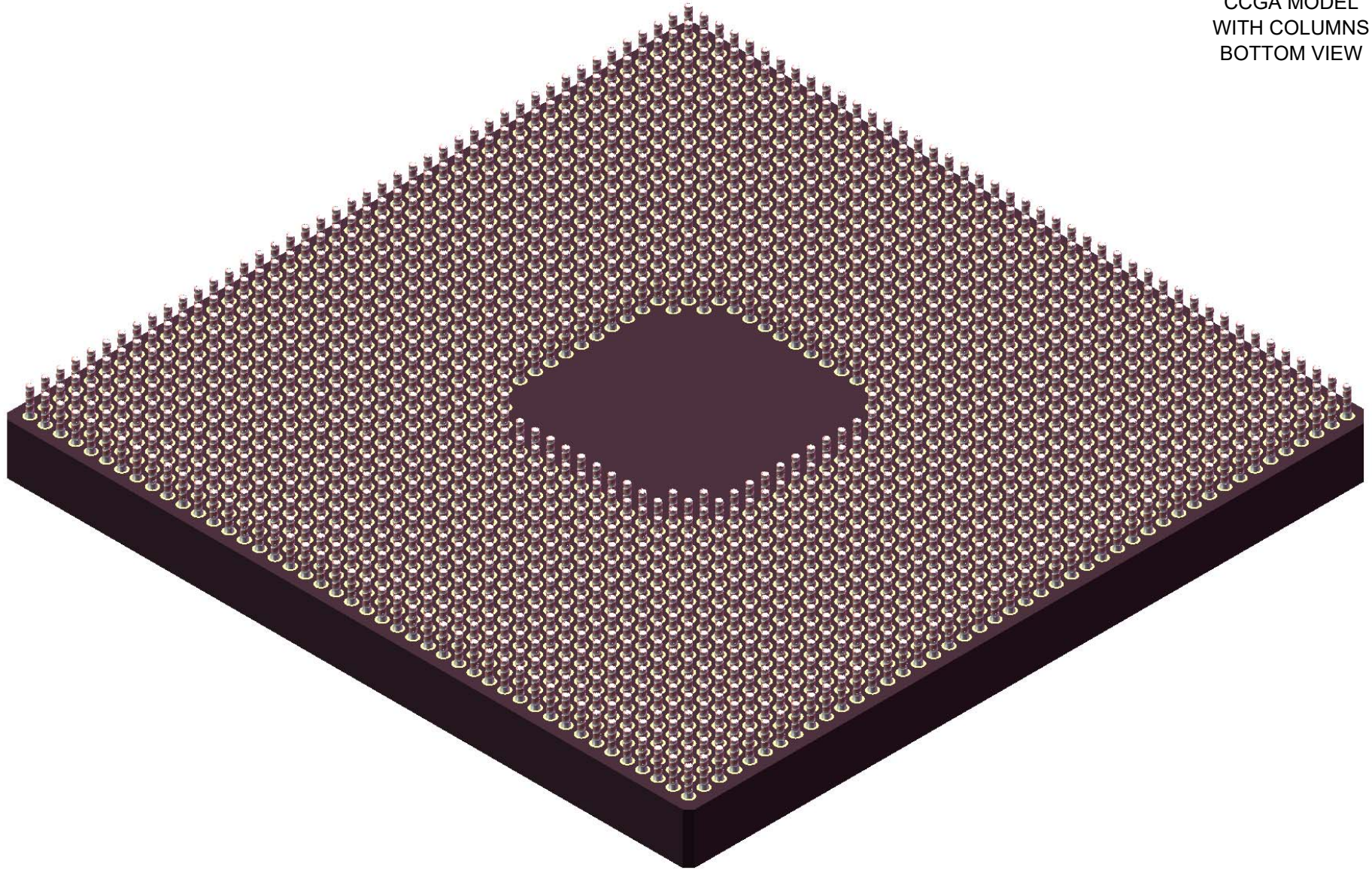
TITLE			
CCGA1752T1.27-44X44 COLUMN GRID ARRAY			
SCALE	SIZE	DRAWING NO.	REV
1.5:1	A	160205	A
DO NOT SCALE DRAWING			SHEET 4 OF 7

CCGA MODEL  
WITH COLUMNS  
TOP VIEW



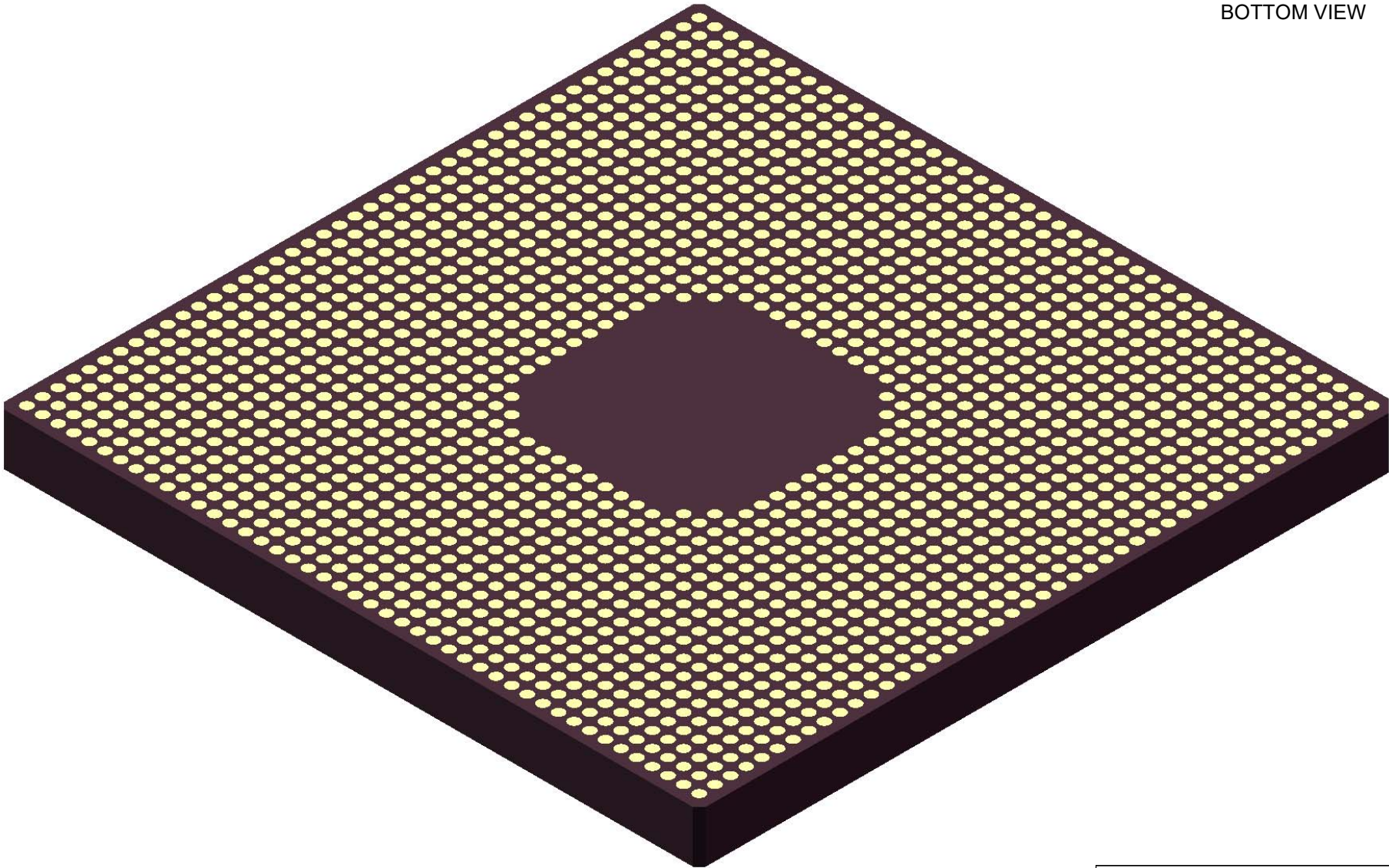
<b>TopLine</b> <sup>®</sup>			
TITLE		CCGA1752T1.27-44X44 COLUMN GRID ARRAY	
SCALE	SIZE	DRAWING NO.	REV
3:1	A	160205	A
DO NOT SCALE DRAWING			SHEET 5 OF 7

CCGA MODEL  
WITH COLUMNS  
BOTTOM VIEW



<b>TopLine</b> <sup>®</sup>			
TITLE		CCGA1752T1.27-44X44 COLUMN GRID ARRAY	
SCALE	SIZE	DRAWING NO.	REV
3:1	A	160205	A
DO NOT SCALE DRAWING			SHEET 6 OF 7

CLGA MODEL  
WITHOUT COLUMNS  
BOTTOM VIEW



<b>TopLine</b> <sup>®</sup>			
TITLE		CCGA1752T1.27-44X44 COLUMN GRID ARRAY	
SCALE	SIZE	DRAWING NO.	REV
3:1	A	160205	A
DO NOT SCALE DRAWING			SHEET 7 OF 7