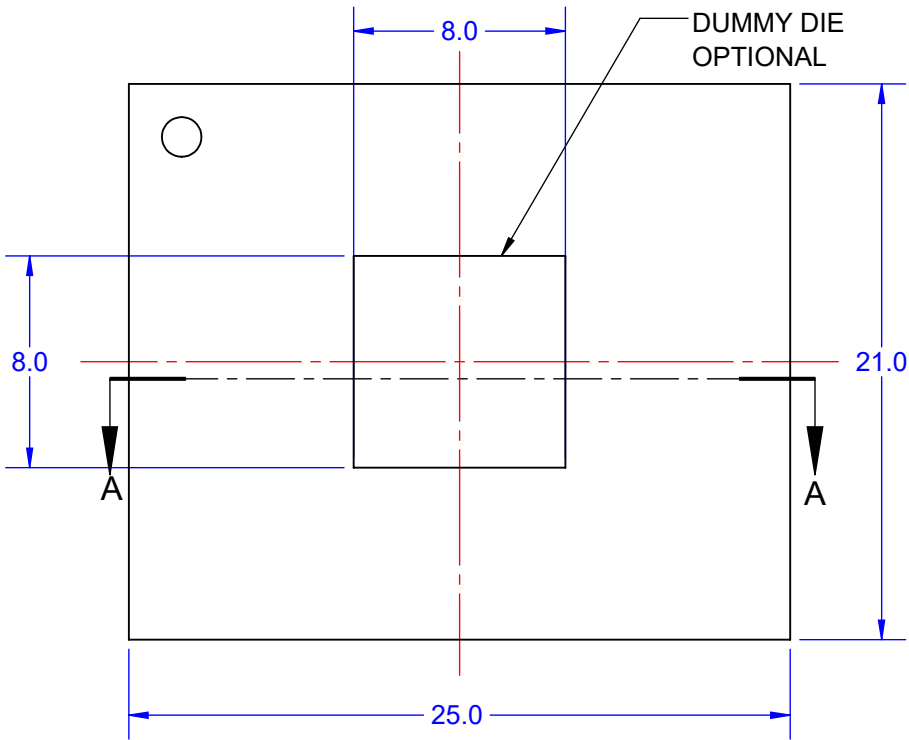
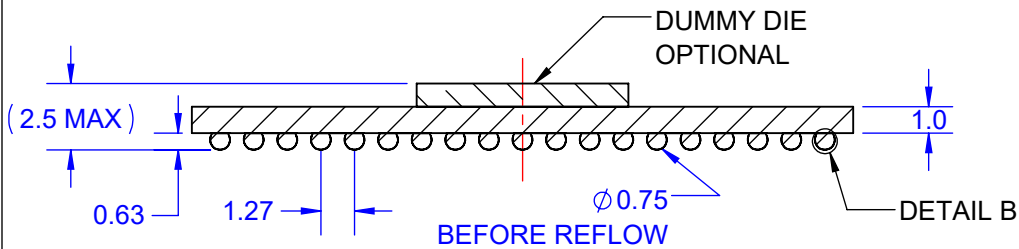
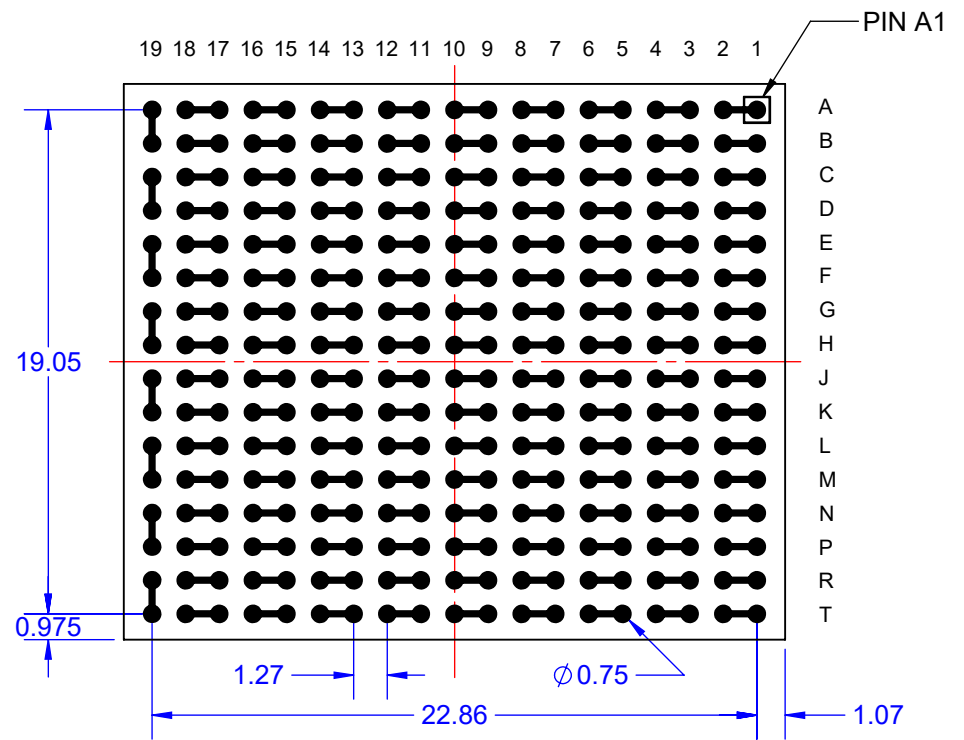


CBGA WITH DIE

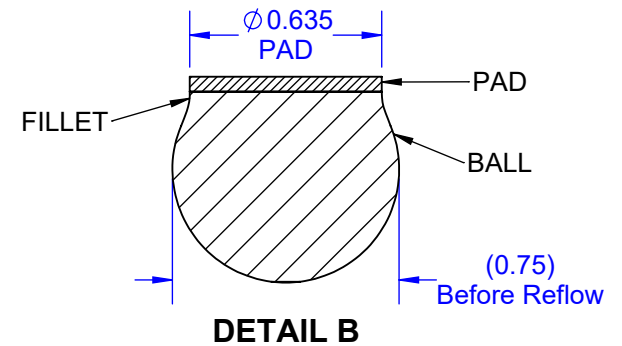
TOP VIEW



BALL VIEW



SECTION A-A
SCALE 3.5 : 1



DETAIL B

Notes: (Unless Otherwise Specified).

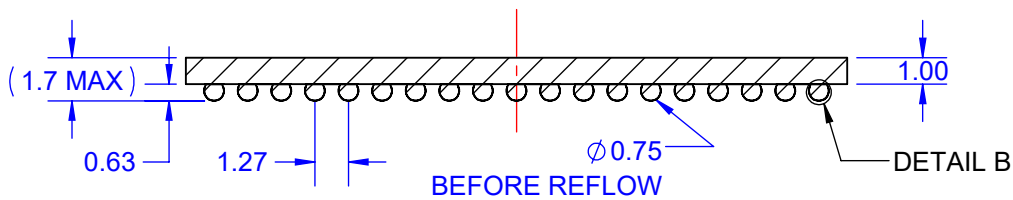
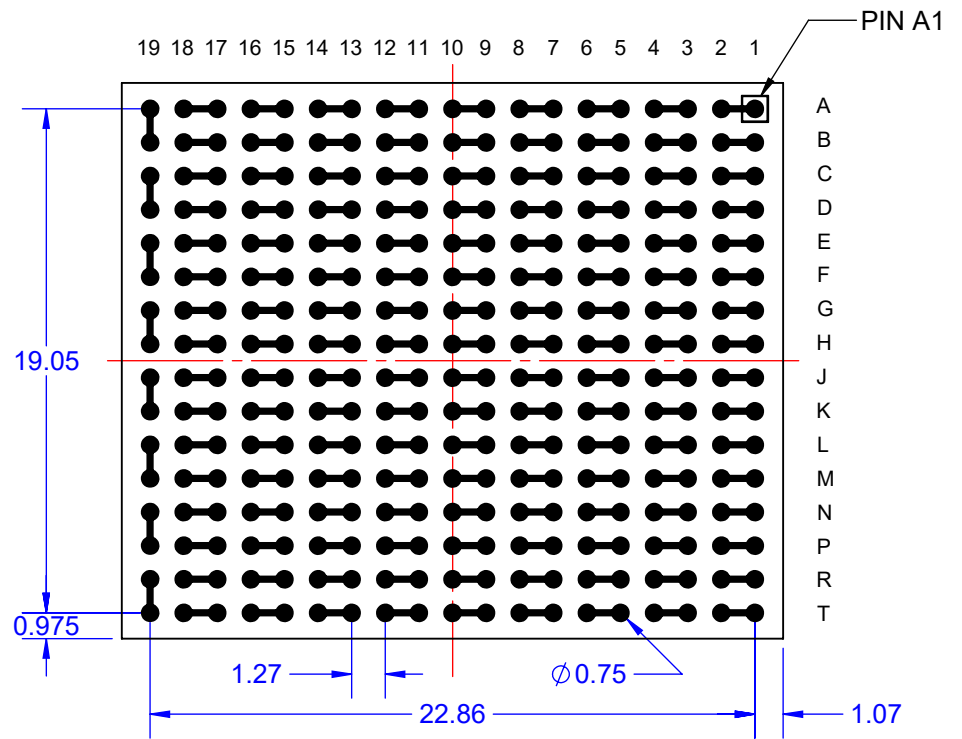
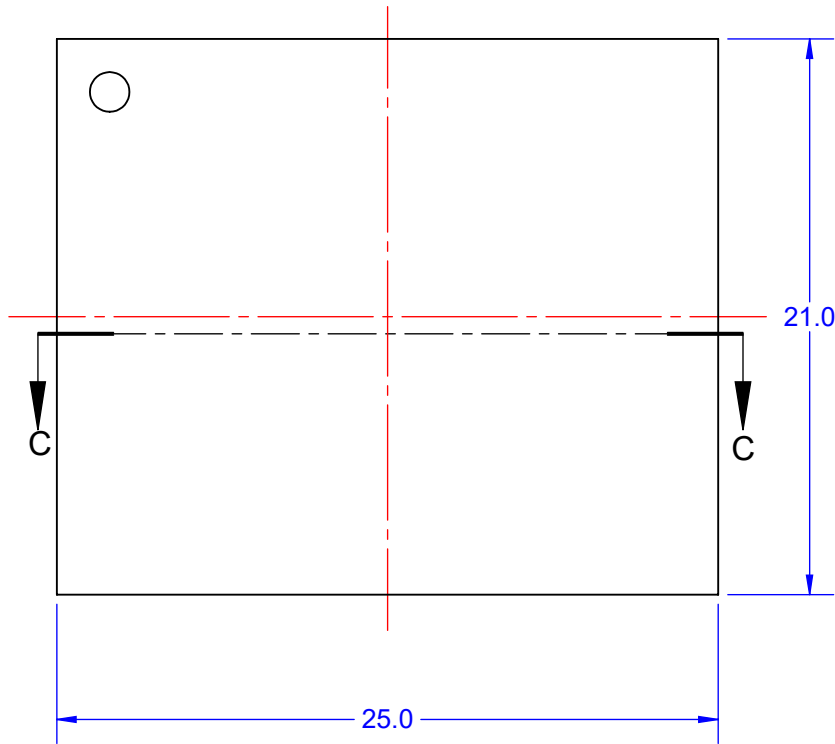
- 1) DIMENSIONS MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER CONFIGURATION.
- 3) BALL DIAMETER (BEFORE REFLOW): 0.76mm (30 MIL).
- 4) SOLDER MASK OPENING: 0.635mm (25 MIL).
- 5) SUBSTRATE: ALUMINA CERAMIC.

APPROVALS	DATE	TopLine [®]			
DRAWN T. Au	08/20/2022				
ENG M. Hart	08/20/2022	TITLE CBGA304T1.27Y-DC63 CERAMIC BALL GRID ARRAY			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		3:1	A	520637	A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 6
REVISED					

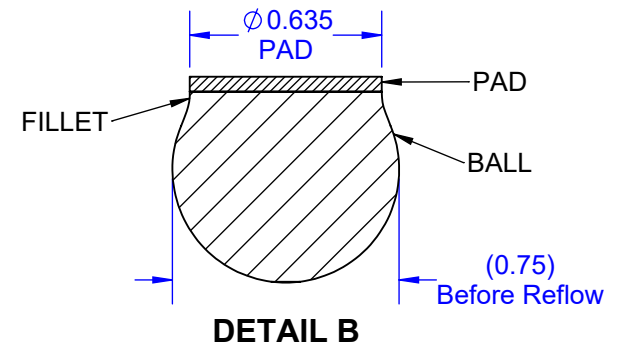
TOP VIEW

CBGA WITHOUT DIE

BALL VIEW



SECTION C-C
SCALE 3.5 : 1

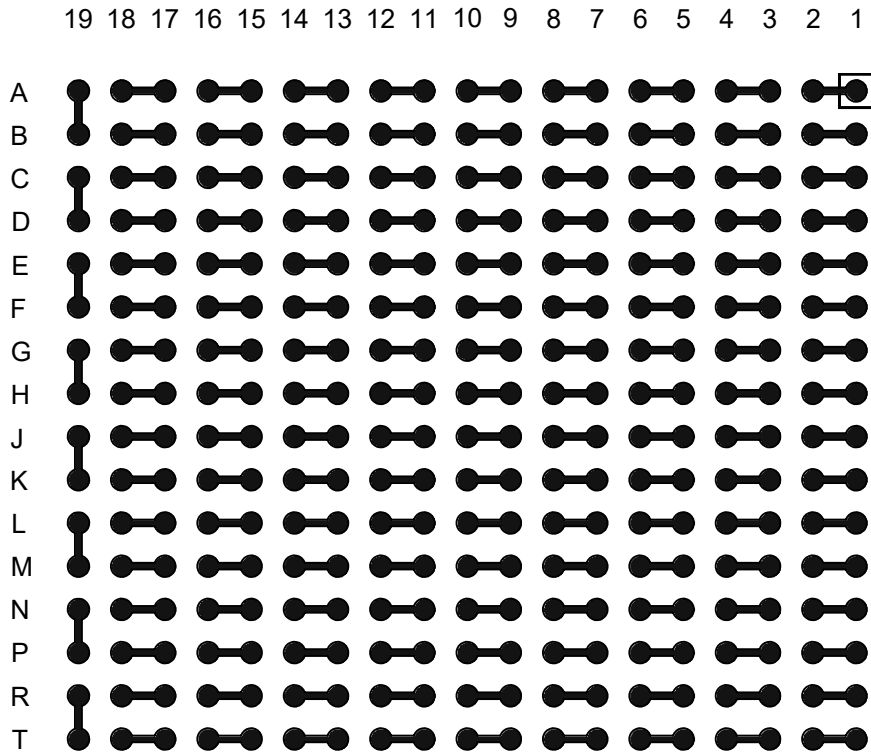


Notes: (Unless Otherwise Specified).

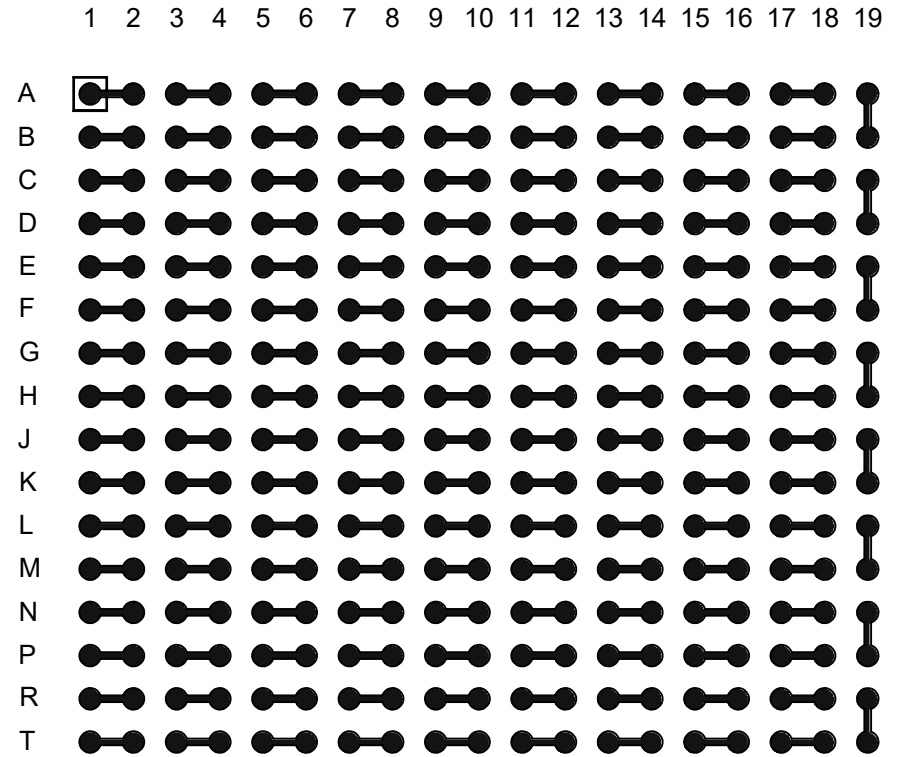
- 1) DIMENSIONS MM.
- 2) SOLDER BALL ALLOY: SEE PART NUMBER CONFIGURATION.
- 3) BALL DIAMETER (BEFORE REFLOW): 0.76mm (30 MIL).
- 4) SOLDER MASK OPENING: 0.635mm (25 MIL).
- 5) SUBSTRATE: ALUMINA CERAMIC.

APPROVALS	DATE	TopLine [®]			
DRAWN T. Au	08/20/2022				
ENG M. Hart	08/20/2022	TITLE CBGA304T1.27Y-DC63 CERAMIC BALL GRID ARRAY			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		3:1	A	520637	A
CUST		DO NOT SCALE DRAWING			SHEET 2 OF 6
REVISED					

BALL VIEW



BOTTOM SIDE (TOP X-RAY VIEW)



TopLine[®]

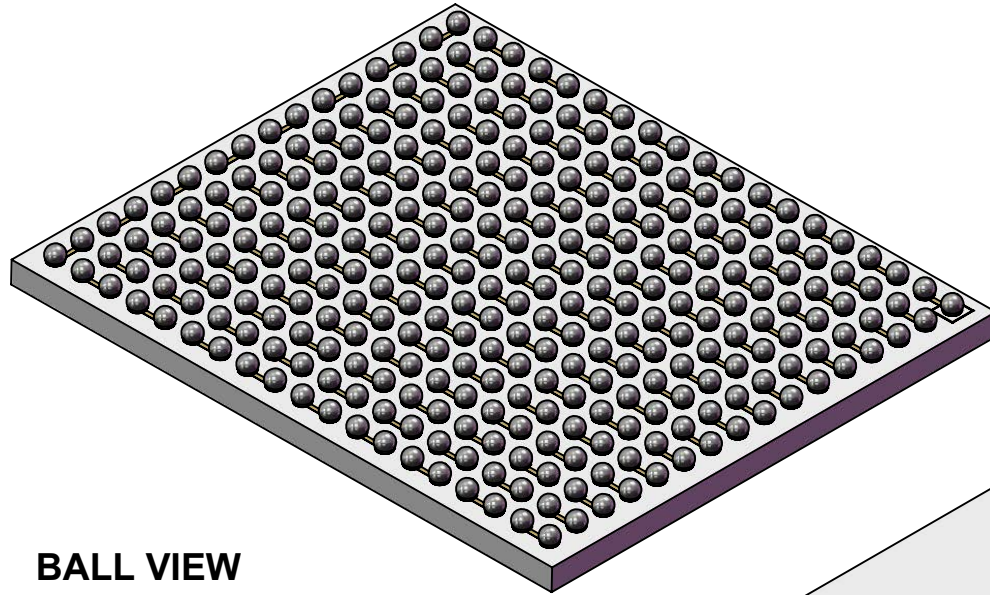
TITLE CBGA304T1.27Y-DC63
CERAMIC BALL GRID ARRAY

SCALE 4.5:1	SIZE A	DRAWING NO. 520637	REV A
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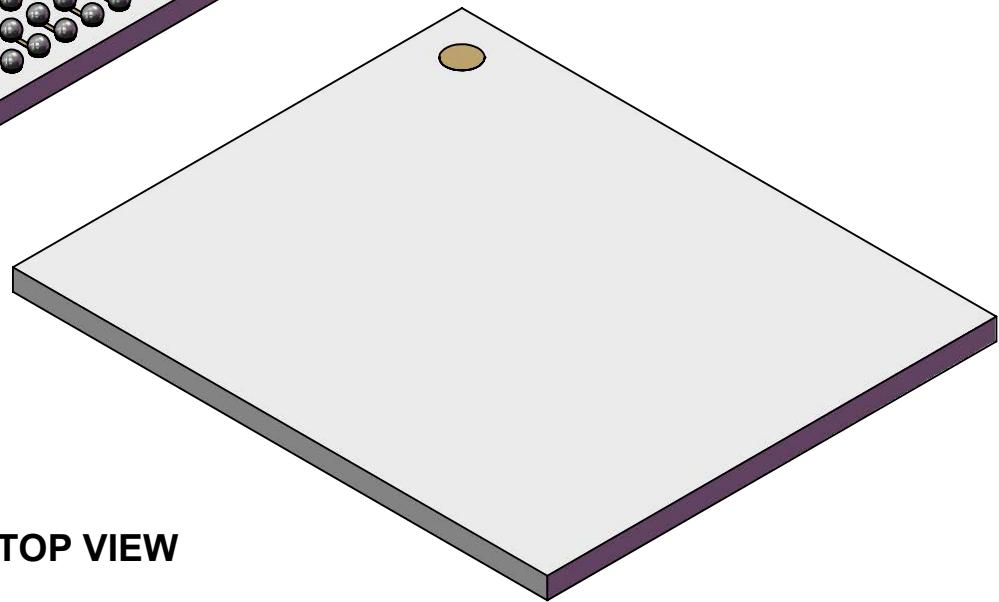
DO NOT SCALE DRAWING

SHEET 3 OF 6

**MODEL
CBGA WITH BALL
WITHOUT DIE**



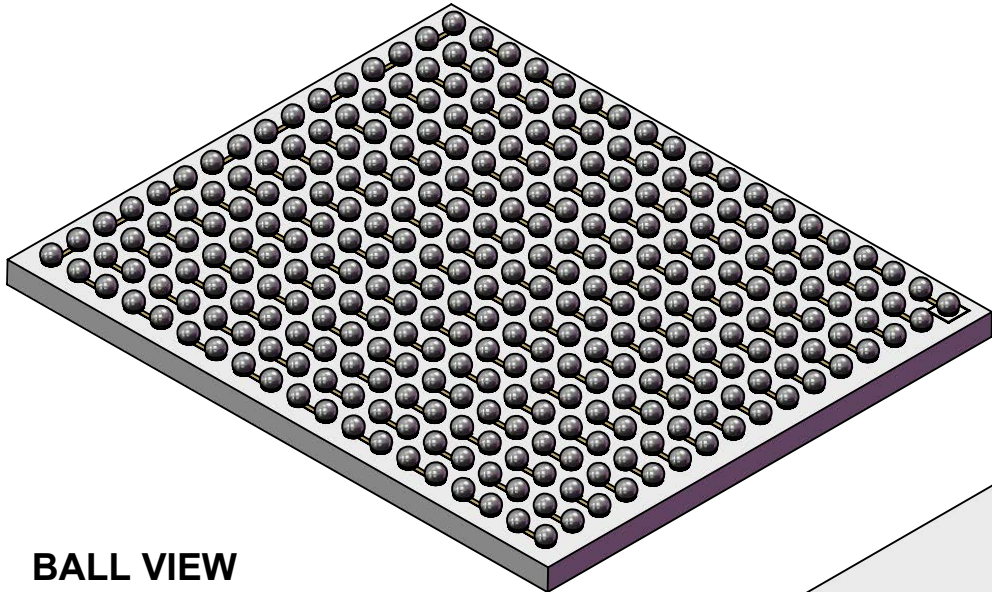
BALL VIEW



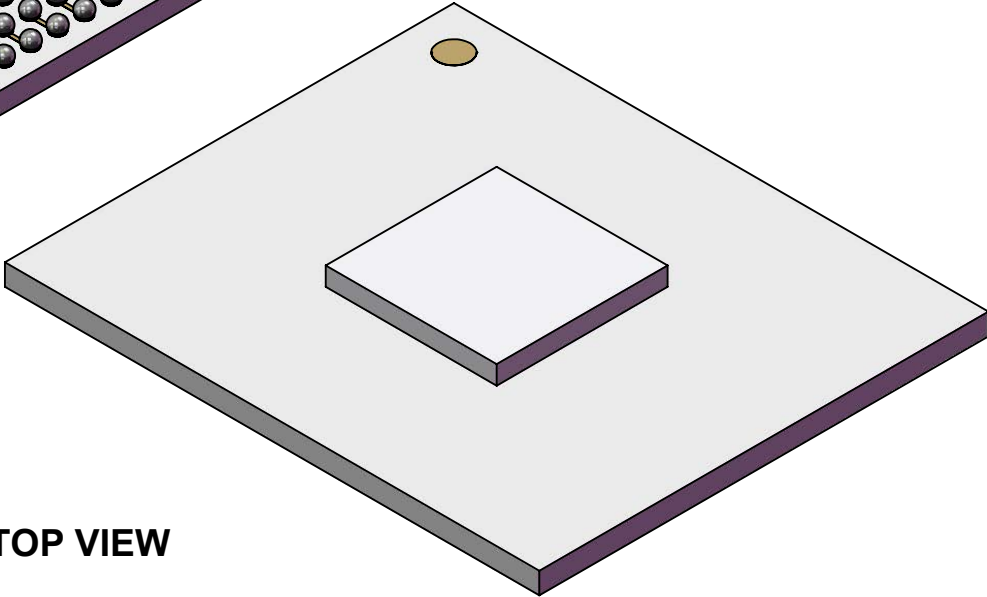
TOP VIEW

TopLine[®]			
TITLE CBGA304T1.27Y-DC63 CERAMIC BALL GRID ARRAY			
SCALE	SIZE	DRAWING NO.	REV
4:1	A	520637	A
DO NOT SCALE DRAWING			SHEET 4 OF 6

**MODEL
CBGA WITH BALL
WITH DIE**



BALL VIEW



TOP VIEW

TopLine®			
TITLE CBGA304T1.27Y-DC63 CERAMIC BALL GRID ARRAY			
SCALE	SIZE	DRAWING NO.	REV
4:1	A	520637	A
DO NOT SCALE DRAWING			SHEET 5 OF 6

PART NUMBER SYSTEM

CBGA

304

T

1.27

X

-

DC63

D

SERIES

CBGA = CERAMIC
BALL GRID ARRAY

BALLS

NBR SOLDER
BALLS

TRAY

T = JEDEC

PITCH

1.27mm = 0.050"

ALLOY

L = Sn62/Pb36/Ag2.0
X = Sn63/Pb37
C = SAC305
Blank = Sn10/Pb90

DIE

D = DUMMY DIE
BLANK = WITHOUT DIE

DAISY CHAIN

DC63 = SEE PATTERN

PART NUMBER	BALL ALLOY	CODE	LEAD FREE	DIE
CBGA304T1.27-DC63	Sn10/Pb90	Sn10	NO	NO
CBGA304T1.27-DC63D	Sn10/Pb90	Sn10	NO	YES
CBGA304T1.27L-DC63	Sn62/Pb36/Ag2.0	Sn62	NO	NO
CBGA304T1.27L-DC63D	Sn62/Pb36/Ag2.0	Sn62	NO	YES
CBGA304T1.27X-DC63	Sn63/Pb37	Sn63	NO	NO
CBGA304T1.27X-DC63D	Sn63/Pb37	Sn63	NO	YES
CBGA304T1.27C-DC63	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	NO
CBGA304T1.27C-DC63D	Sn96.5/Ag3.0/Cu0.5	SAC305	YES	YES

TopLine®			
TITLE CBGA304T1.27-DC63 CERAMIC BALL GRID ARRAY			
SCALE NONE	SIZE A	DRAWING NO. 520637	REV A
DO NOT SCALE DRAWING			SHEET 6 OF 6