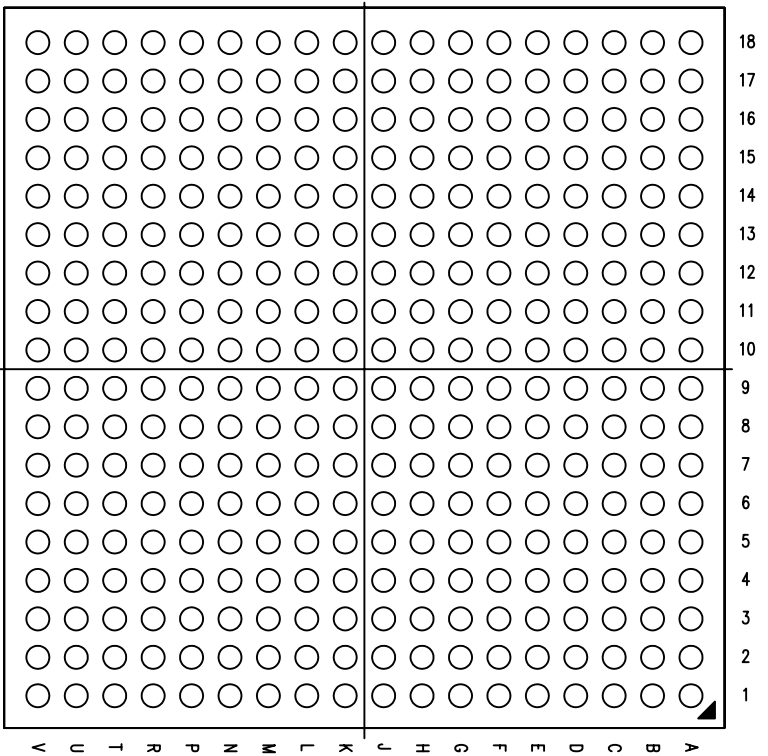


TOLERANCES UNLESS SPECIFIED		6024 SILVER CREEK	
DECIMAL	ANGULAR	VALLEY ROAD, SAN JOSE, CA 95138	
XXX±	±	PHONE: (408) 284-8200	
XXXX±		FAX: (408) 284-3572	
XXXX±		WWW.IDT.COM	
APPROVALS	DATE	TITLE	
DRAWN JYJ	06/05/09	BF/BFG324 PACKAGE OUTLINE	
CHECKED		15.0 X 15.0 mm, 0.8mm PITCH	
		FPBGA	
SIZE	DRAWING NO.	REV	
C	PSC-4254	03	
DO NOT SCALE DRAWING		SHEET 1 OF 4	




(324 BALL)

SYMBOL	JEDEC VARIATION			NOTE
	MO-275-KKAB-1	NOM	MAX	
A			1.70	
A1	.25			
A2	.65			
D	15.00	BSC		
E	15.00	BSC		
D1	13.60	BSC		
E1	13.60	BSC		
SD	0.40	BSC		
SE	0.40	BSC		
M	18 X 18			3
N	324			4
e	.80	BSC		
b	.40	.45	.50	5
b1	.30			
CENTER BALL MATRIX	N/A			

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994
 - 2 "e" REPRESENTS THE BASIC SOLDER BALL GRID PITCH
 - 3 "M" REPRESENTS THE MAXIMUM SOLDER BALL MATRIX SIZE
 - 4 "N" REPRESENTS THE BALLOUNT NUMBER
 - 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM [C-C]
 - 6 SEATING PLANE AND PRIMARY DATUM [C-C] ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
 - 7 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
 - 8 IF "A1" ID CORNER IS ON PACKAGE BODY, IT MUST BE LOCATED WITHIN THE ZONE INDICATED
 - 9 ALL DIMENSIONS ARE IN MILLIMETERS
- △ DIMENSION 'SD/SE' IS MEASURED WITH RESPECT TO DATUMS A AND B AND DEFINES THE POSITION OF THE CENTER CONTACT BALL IN THE OUTER ROW. WHEN THERE IS AN ODD NUMBER OF CONTACT BALLS IN THE OUTER ROW OF A FULL MATRIX SD/SE=0. WHEN THERE IS AN EVEN NUMBER OF CONTACT BALLS IN THE OUTER ROW THE VALUE SD/SE=e/2

TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR XXX± ± XXXXX±		 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 294-8200 FAX: (408) 294-3572 www.IDT.com	
APPROVALS	DATE	TITLE	REV
DRAWN 37Y	09/05/09	BF/BFG324 PACKAGE OUTLINE 15.0 X 15.0 mm, 0.8mm PITCH FPBGA	03
CHECKED		SIZE C	DRAWING No. PSC-4254
			DO NOT SCALE DRAWING
			SHEET 2 OF 4

