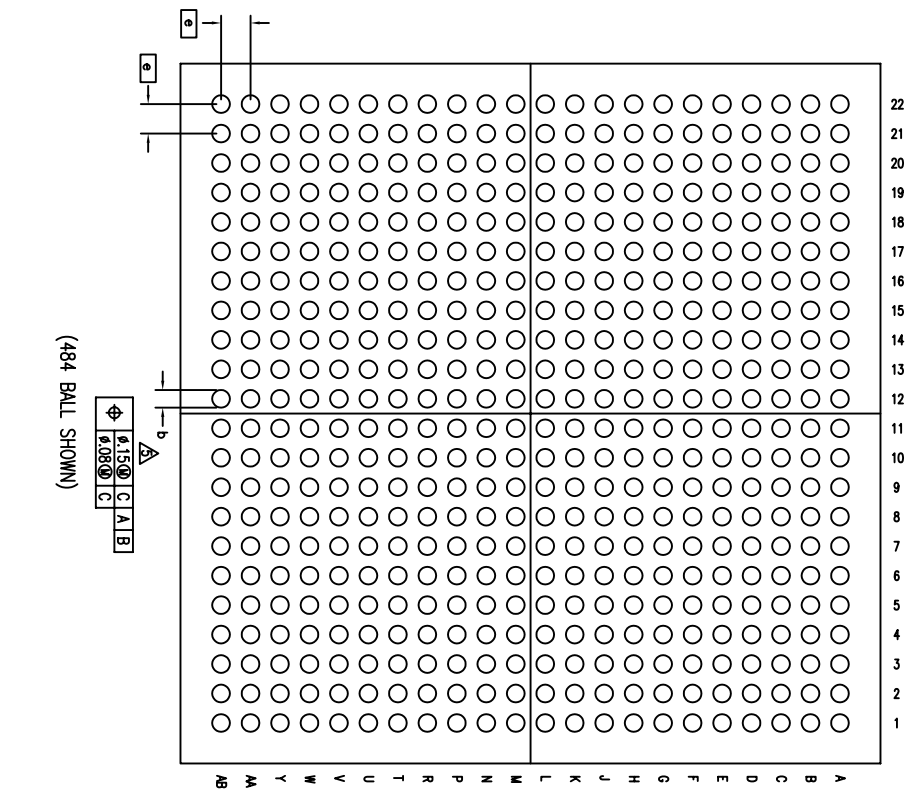
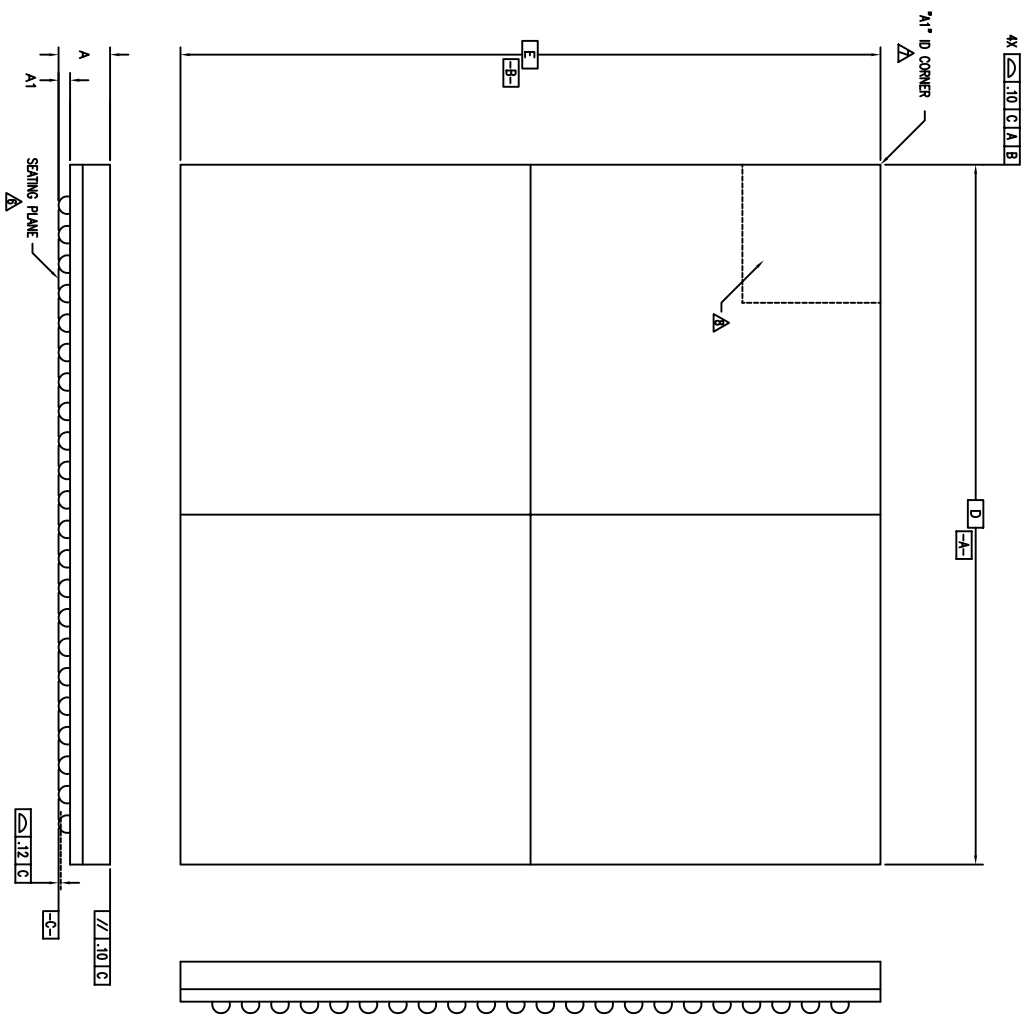



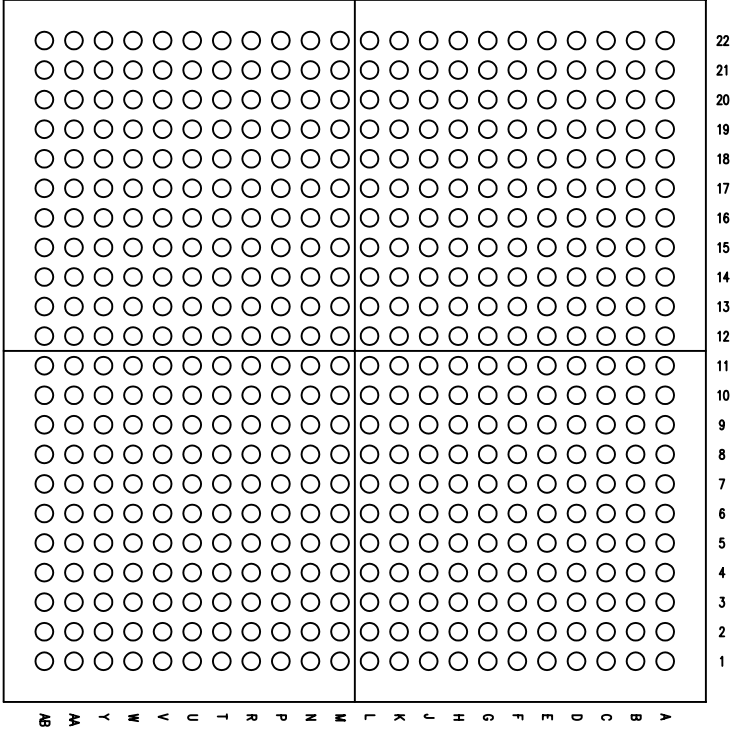
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	05/27/09	PP
01	COMBINE POD & LAND PATTERN	05/24/13	KS



(484 BALL SHOWN)

TOLERANCES UNLESS SPECIFIED DECIMAL      ANGULAR XXX±            ± XXXX±		 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 www.IDT.com	
APPROVALS	DATE	TITLE	SIZE
DRAWN/PC/CP	04/24/09	BF/BFG 484 PACKAGE OUTLINE 19.0 x 19.0 mm, 0.8mm PITCH FPRGA	C
CHECKED			
DO NOT SCALE DRAWING			REV
			01
			SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	05/27/09	PP
01	COMBINE POD & LAND PATTERN	05/24/13	KS



(484 BALL)

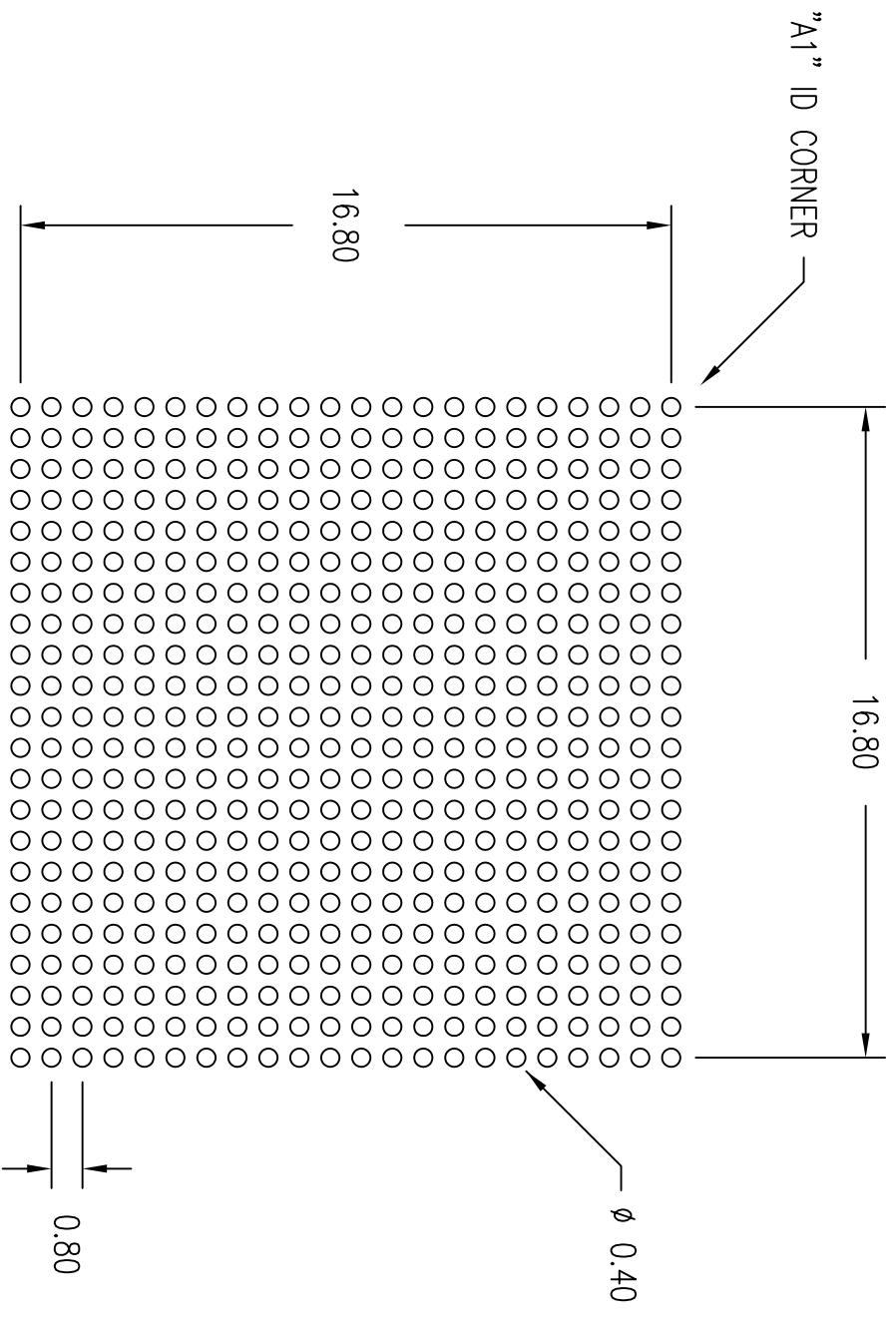
SYMBOL	JEDEC VARIATION			NOTE
	MO-205	MIN	NOM	
A	1.30	1.40	1.70	
A1	.25	.40	.45	
D	19.00 BSC			
E	19.00 BSC			
M	22 X 22			3
N	484			4
e	.80 BSC			
b	.40	.45	.50	5
CENTER BALL MATRIX	N/A			

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 BALLCOUNT NUMBER
- △ DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM  $\square$ -C-
- △ SEATING PLANE AND PRIMARY DATUM  $\square$ -C- ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- △ "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- △ IF "A1" ID CORNER IS ON PACKAGE BODY, IT MUST BE LOCATED WITHIN THE ZONE INDICATED
- 9 ALL DIMENSIONS ARE IN MILLIMETERS

TOLERANCES UNLESS SPECIFIED		www.IDT.com	
DECIMAL	ANGULAR	6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138	
±	±	PHONE: (408) 294-8200	
XXXX±		FAX: (408) 294-5972	
APPROVALS	DATE	TITLE	
DRAWN <i>Drc/CP</i>	04/24/09	BF/BFG 484 PACKAGE OUTLINE	
CHECKED		19.0 x 19.0 mm, 0.8mm PITCH	
		PPBGA	
SIZE	DRAWING No.	REV	
C	PSC-4252	01	
DO NOT SCALE DRAWING		SHEET 2 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	05/27/09	PP
01	COMBINE POU & LAND PATTERN	05/24/13	KS



LAND PATTERN DIMENSIONS (mm)

TOLERANCES UNLESS SPECIFIED			
DECIMAL	ANGULAR		
XXX±	±		
XXXX±			
APPROVALS	DATE		
DRAWN PJC/CP	07/07/08		
CHECKED			
		6024 SILVER CREEK VALLEY ROAD. SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 <a href="http://www.IDT.com">www.IDT.com</a>	
TITLE		BF/BFG484 PACKAGE OUTLINE	
DRAWN		19.0 x 19.0 mm BODY	
CHECKED		0.8 mm PITCH FPBGA	
SIZE	DRAWING No.	PSC-4252	REV
C			01
DO NOT SCALE DRAWING			SHEET 3 OF 3