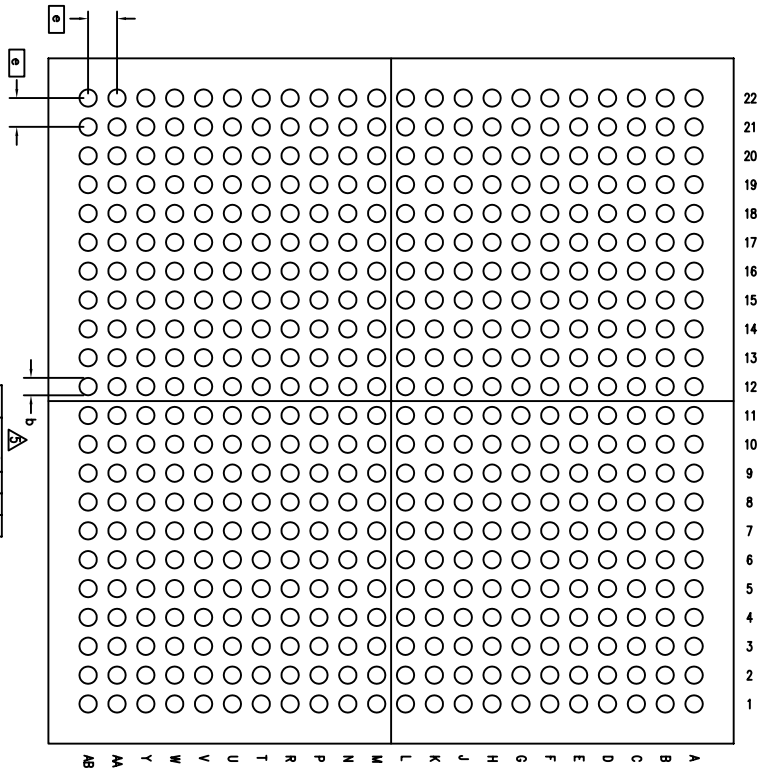
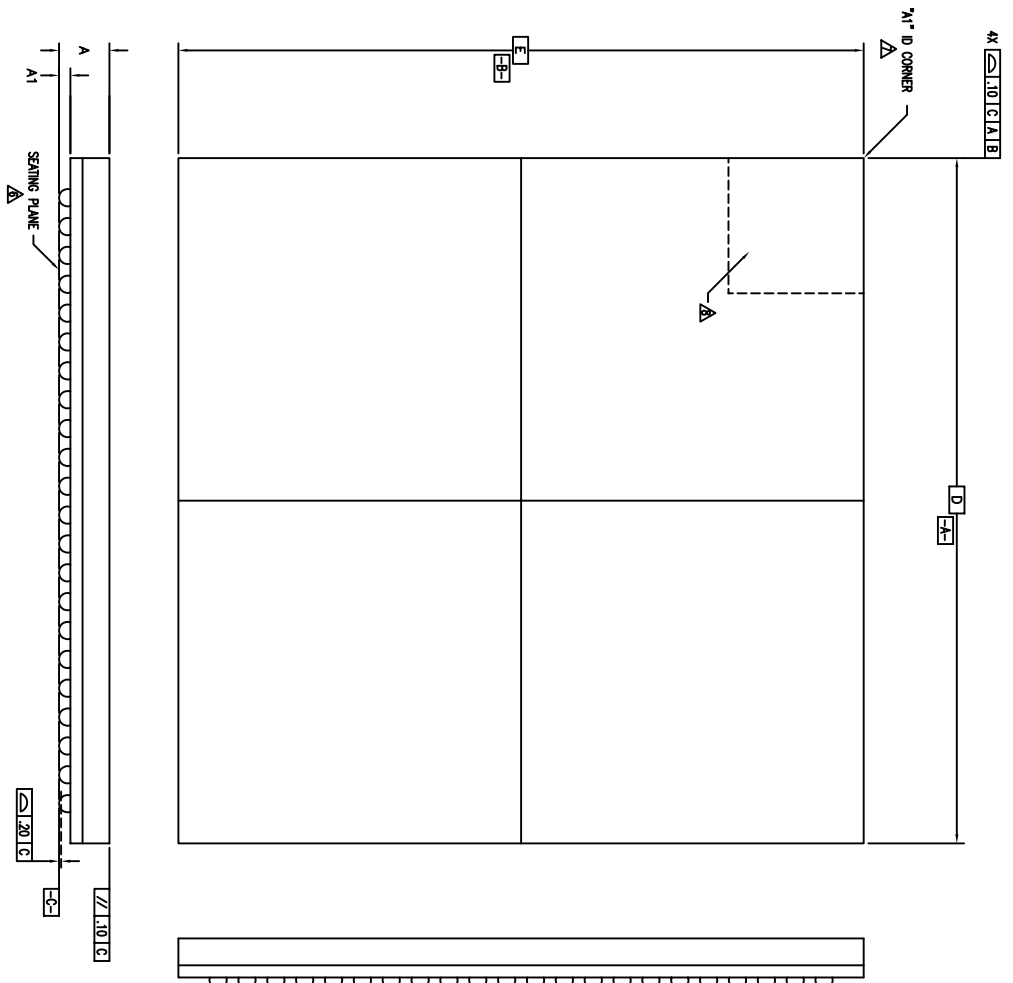



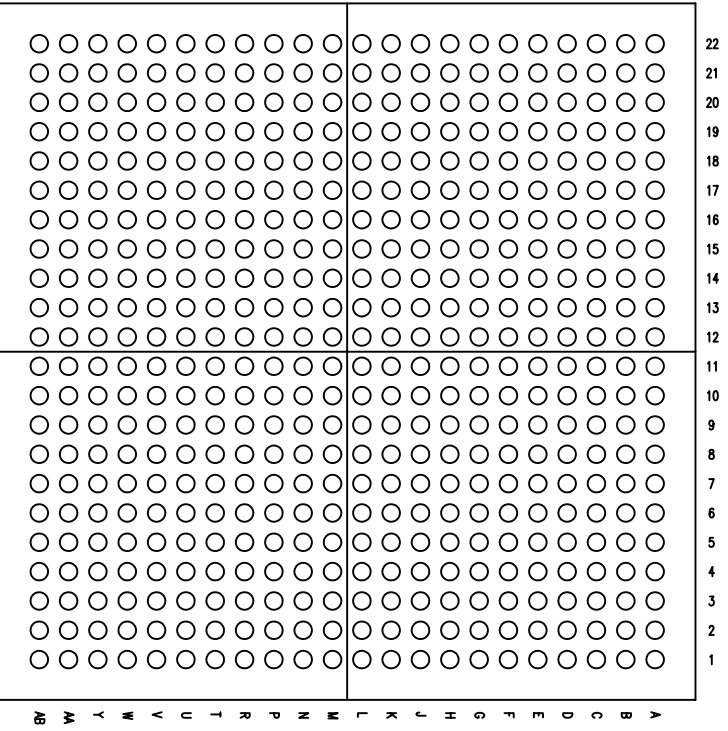
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/10/10	CK
01	COMBINE POD & LAND PATTERN	05/24/13	KS



(484 BALL SHOWN)

<b>TOLERANCES</b> UNLESS SPECIFIED DECIMAL ANGULAR ± XXXX XXXX±		 www.idt.com 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
<b>APPROVALS</b> DRAWN: GJC CHECKED: FPRCA	DATE: 07/23/10 DATE:	<b>TITLE</b> AA/JAG 484 PACKAGE OUTLINE 19.0 x 19.0 mm, 0.3mm FITCH FPRCA	WWW.IDT.COM 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572
SIZE: C DO NOT SCALE DRAWING	DRAWING NO.: PSC-4299	REV: 01	SHEET 1 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/10/10	CK
01	COMBINE POD & LAND PATTERN	05/24/13	KS



(484 BALL)

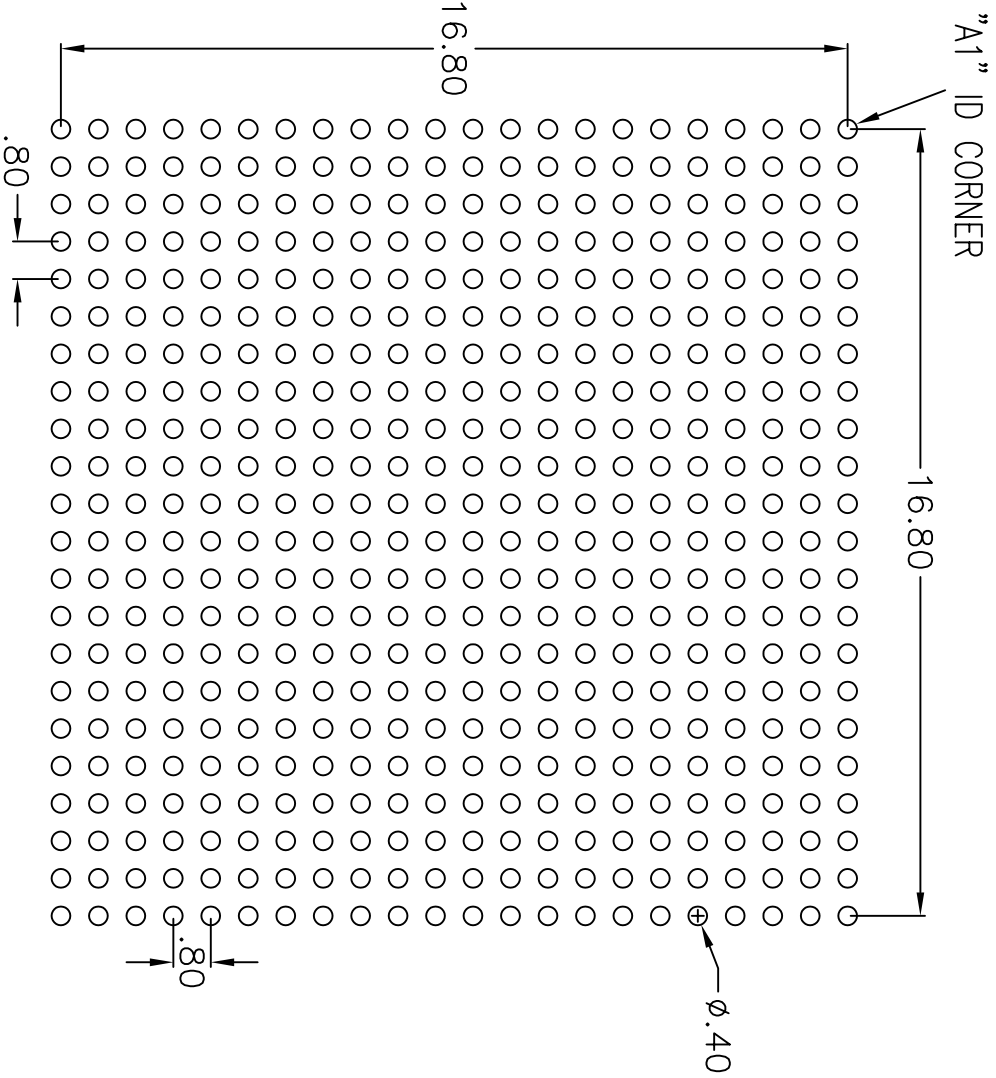
SYMBOL	JEDEC VARIATION			NOTE
	MO-205	MIN	NOM	
A	1.13	1.22	1.30	
A1	.25		.40	
D	19.00 BSC			
E	19.00 BSC			
M	22 X 22			3
N	484			4
e	.80 BSC			
b	.40	.45	.50	5
CENTER BALL MATRIX	N/A			

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		6024 SILVER CREEK	
DECIMAL	ANGULAR	VALLEY ROAD, SAN JOSE, CA 95138	
XXX.X	Z	PHONE: (408) 284-8200	
XXXX.X		FAX: (408) 284-3572	
APPROVALS	DATE	TITLE	
DRAWN GJK	01/23/10	AA/AG 484 PACKAGE OUTLINE	
CHECKED		19.0 x 19.0 mm, 0.8mm PITCH	
		FPGA	
		SIZE	REV
		C	01
DRAWING No. PSC-4299		DO NOT SCALE DRAWING	
		SHEET 2 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	02/10/10	CK
01	COMBINE POD & LAND PATTERN	05/24/13	KS



TOLERANCES UNLESS SPECIFIED		8024 SILVER CREEK	
DECIMAL	ANGULAR	VALLEY ROAD, SAN JOSE, CA 95138	
XXXX+	Z	PHONE: (408) 284-8200	
XXXX+		FAX: (408) 284-3572	
XXXX+		WWW.IDT.COM	
APPROVALS	DATE	TITLE	
DRAWN GJK	08/07/12	AA/AG 484 PACKAGE OUTLINE	
CHECKED		19.0 x 19.0 mm, 0.8mm PITCH	
		SIZE	REV
		C	01
DRAWING No. PSC-4299		DO NOT SCALE DRAWING	
		SHEET 3 OF 3	