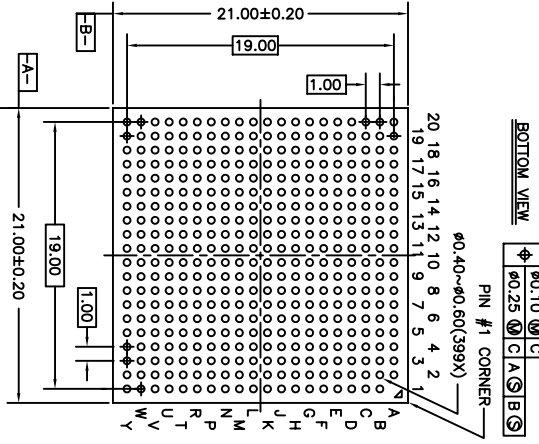
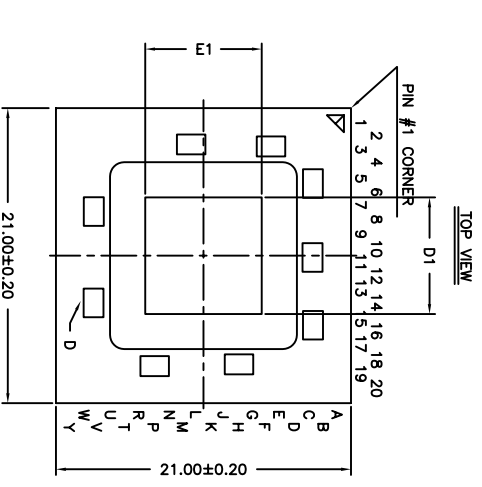


# OPTION 1



Ball Pitch :	1.00	Substrate Thickness :	1.20
Ball Diameter :	0.50		

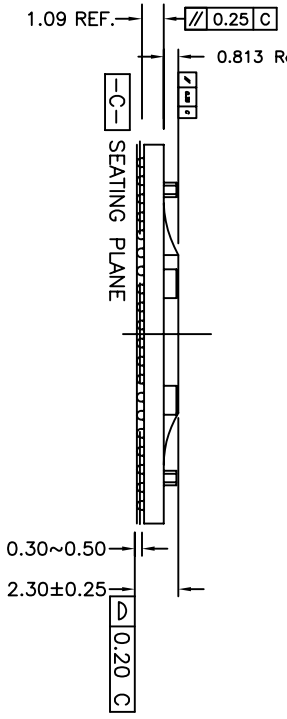
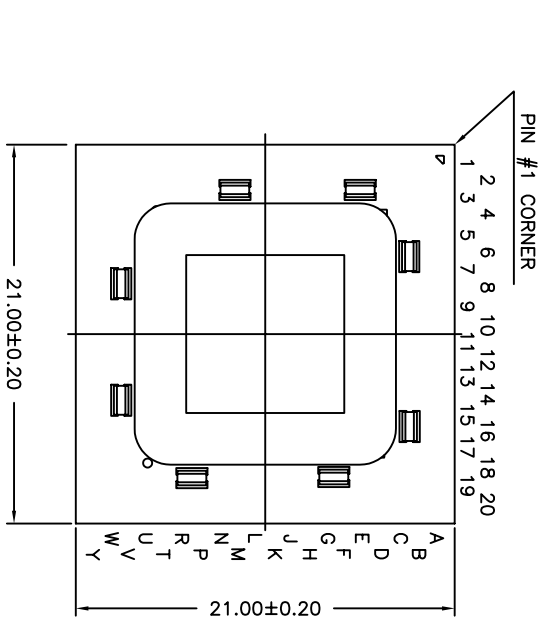
DIE SIZE VARIATION PREFIX			
DEVICE PSEUDO	D1	E1	DRAWING OPTIONS
TSI564A	8.3	8.3	OPTION 1
TSI576	8.76	8.76	OPTION 2

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	07/10/09	P.PAK
01	ADD DIE SIZE VARIATION PREFIX	01/30/13	RC
02	COMBINE POD & LAND PATTERN	4/10/13	RC

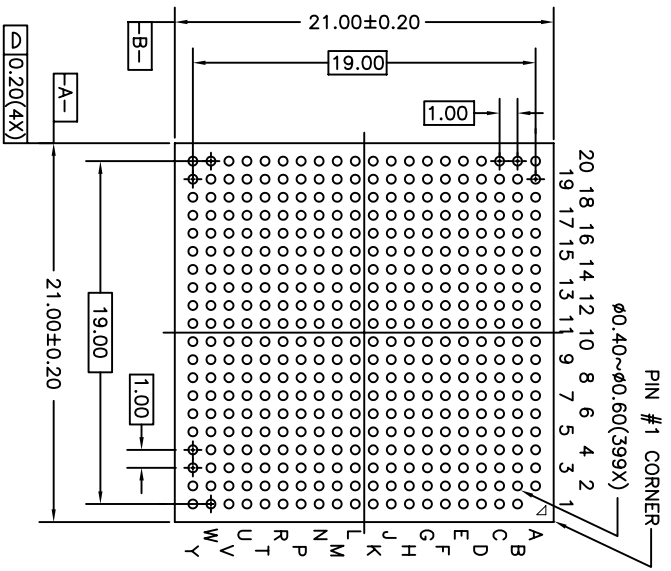
<b>TOLERANCES UNLESS SPECIFIED</b> DECIMAL ANGULAR XX± .1 ° XXX± .05 ° XXXX± .030 °		<b>IDT™</b> 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 WWW.IDT.COM	
APPROVALS	DATE	TITLE	REV
DRAWN <b>6ALG</b>	7/10/09	HM/RM 399 PACKAGE OUTLINE	02
CHECKED		21 x 21 mm BODY	
		1.00 mm PITCH FCBGA	
SIZE	DRAWING No.		
<b>C</b>	<b>PSC-4268</b>		
DO NOT SCALE DRAWING			SHEET 1 OF 3

# OPTION 2

TOP VIEW



BOTTOM VIEW



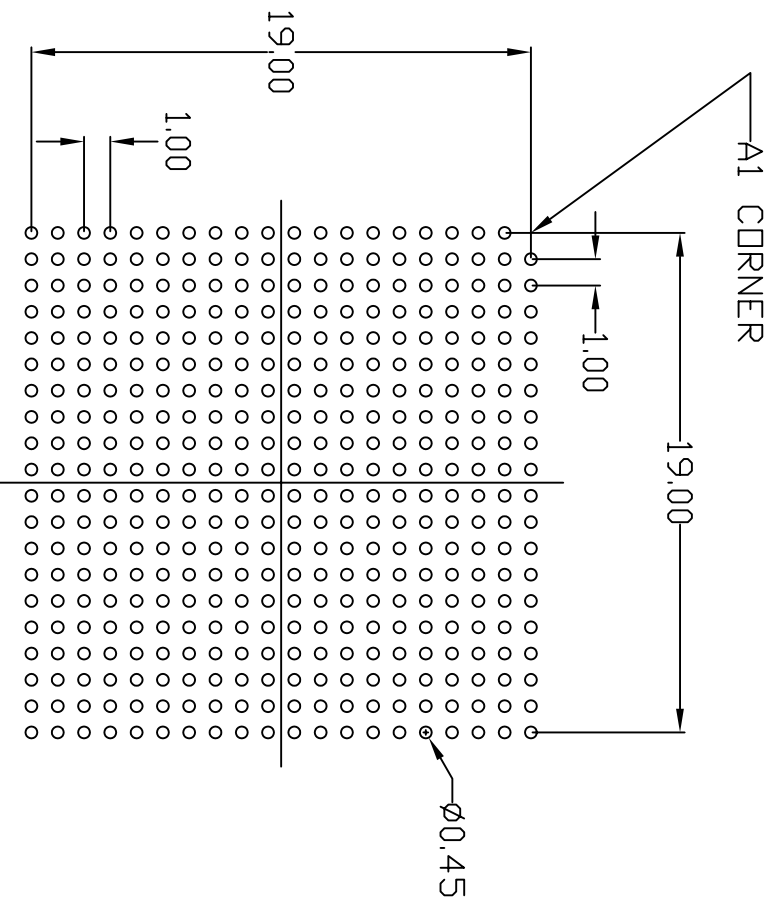
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	07/10/09	P.PAIK
01	ADD DIE SIZE VARIATION PREFIX	01/30/13	RC
02	COMBINE POD & LAND PATTERN	4/10/13	RC

$\phi$ 0.10 (M)	C
$\phi$ 0.25 (M)	C   A   B   B

Ball Pitch :	1.00	Substrate Thickness :	1.09
Ball Diameter :	0.50		

		6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
TOLERANCES UNLESS SPECIFIED DECIMAL ANGLAR ±1° XX± .05 XXX± .030			
APPROVALS	DATE	TITLE	SIZE
DRAWN RALG	7/10/09	HM/RM 399 PACKAGE OUTLINE	C
CHECKED		21 x 21 mm BODY	
		1.00 mm PITCH FCBGA	
WWW.IDT.COM		DRAWING No.	REV
PSC-4268		02	DO NOT SCALE DRAWING


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	07/10/09	P.PAIK
01	ADD DIE SIZE VARIATION PREFIX	01/30/13	RC
02	COMBINE POD & LAND PATTERN	4/10/13	RC



RECOMMENDED LAND PATTERN

NOTE:

- 1) ALL dimensions are in mm, Angles in degrees.
- 2) Top down view, as view on PCB.
- 3) NSMD Land Pattern Assumed
- 4) Land Pattern Recommendation as per IPC-7351B generic requirement for surface mount design and Land Pattern.

TOLERANCES UNLESS SPECIFIED DECIMAL      ANGULAR XX.X    .1    ±1° XXX.X    .030		 6024 SILVER CREEK VALLEY ROAD, SAN JOSE, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572 www.IDT.com	
APPROVALS DRAWN <i>QAC</i> CHECKED	DATE 7/10/09	TITLE HM/RM_399 PACKAGE OUTLINE 21 x 21 mm BODY 1.00 mm PITCH FCBGA	SIZE DRAWING No. PSC-4268
DO NOT SCALE DRAWING		REV	02
		SHEET	3 OF 3