

Lattice Semiconductor Corporation - <u>LFEC10E-3Q208I Datasheet</u>



Welcome to **E-XFL.COM**

Understanding <u>Embedded - FPGAs (Field Programmable Gate Array)</u>

Embedded - FPGAs, or Field Programmable Gate Arrays, are advanced integrated circuits that offer unparalleled flexibility and performance for digital systems. Unlike traditional fixed-function logic devices, FPGAs can be programmed and reprogrammed to execute a wide array of logical operations, enabling customized functionality tailored to specific applications. This reprogrammability allows developers to iterate designs quickly and implement complex functions without the need for custom hardware.

Applications of Embedded - FPGAs

The versatility of Embedded - FPGAs makes them indispensable in numerous fields. In telecommunications.

Details	
Product Status	Obsolete
Number of LABs/CLBs	-
Number of Logic Elements/Cells	10200
Total RAM Bits	282624
Number of I/O	147
Number of Gates	-
Voltage - Supply	1.14V ~ 1.26V
Mounting Type	Surface Mount
Operating Temperature	-40°C ~ 100°C (TJ)
Package / Case	208-BFQFP
Supplier Device Package	208-PQFP (28x28)
Purchase URL	https://www.e-xfl.com/product-detail/lattice-semiconductor/lfec10e-3q208i

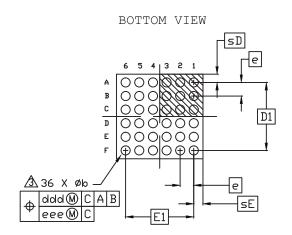
Email: info@E-XFL.COM

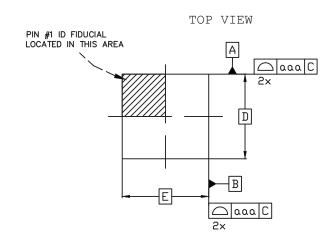
Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong

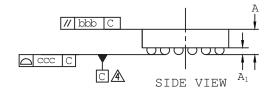


36-Ball WLCS Package Option 2: MachXO3[™]

Dimensions in Millimeters







NOTES:

- 1. ALL DIMENSIONS AND TOLERANCE PER ASME Y 14.5M 1994.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.
- △ DIMENSION "b" IS MEASURES AT THE MAXIMUM BUMP DIAMETER PARALLEL TO PRIMARY DATUM [C].
- \triangle PRIMARY DATUM $\boxed{\text{C}}$ AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BUMPS.

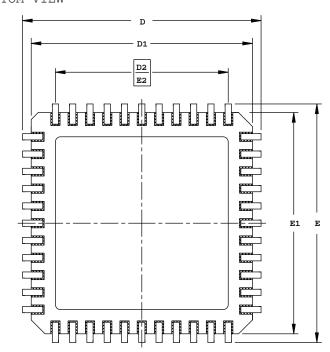
REF.	Min.	Nom.	Max.
A	0.510	0.543	0.576
A1	0.167	0.196	0.225
b	0.239	0.266	0.319
D		2.487 BS	C
E		2.541 BS	C
D1		2.00 BSC	:
E1		2.00 BSC	;
е		0.40 BSC	:
sD	- 0.244		1
sE	- 0.271		-
aaa	0.025		
bbb	0.060		
ccc	0.030		
ddd	0.0150		
eee		0.050	

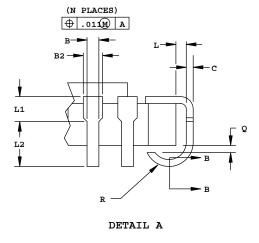


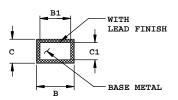
44-Pin JLCC Package

Dimensions in Inches

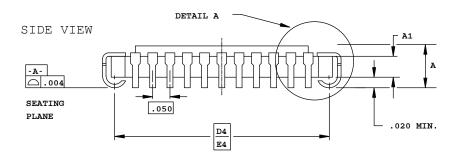
BOTTOM VIEW







SECTION B-B



NOTES:

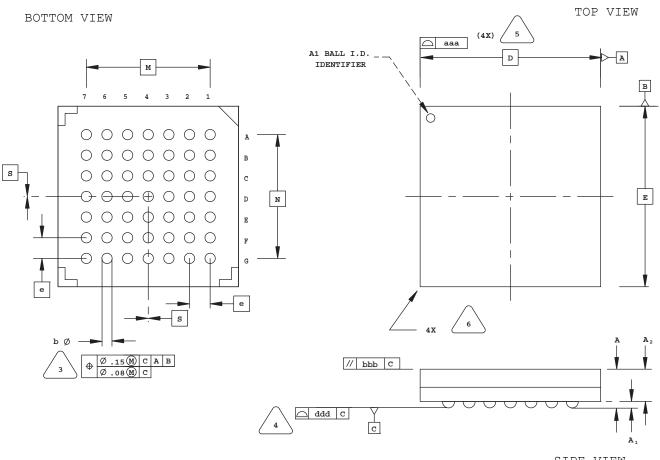
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN INCHES.
- 3. CORNER CHAMFERS AND/OR NOTCHES ARE OPTIONAL.

S Y M	INCHES		
M B O L	MIN.		MAX.
A	.115	1	.190
A1	. 0	65 RE	F
В	.013	-	.023
B1	.013	ı	.020
B2	.022	-	.035
С	.007	ı	.013
C1	.007	ı	.010
D/E	.675	.690	.700
D1/E1	.620	ı	.660
D2/E2	.500 BSC		c
D4/E4	. 6	30 BS	C
L	.005	ı	-
L1	.020	-	-
L2	.025	ı	-
Q	.003	-	-
R	.020	-	.040
N		44	



49-Ball caBGA Package

Dimensions in Millimeters



SIDE VIEW

NOTES: UNLESS OTHERWISE SPECIFIED

- DIMENSIONS AND TOLERANCES 1. PER ANSI Y14.5M.
- ALL DIMENSIONS ARE IN MILLIMETERS. 2.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

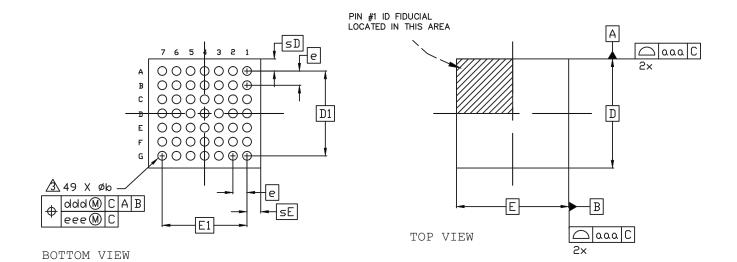


SYMBOL	MIN.	NOM.	MAX.
A	1.30	1.40	1.50
A1	0.31	0.36	0.41
A2	0.99	1.04	1.09
D/E	7	.00 BSC	
M/N	4	.80 BSC	
s	0 BSC		
b	0.40	0.46	0.52
е	0.80 BSC		
aaa	-	-	0.10
bbb	-	-	0.10
ddd	-	-	0.12



49-Ball WLCS Package

Dimensions in Millimeters



M bbb C A A

SIDE VIEW

Notes:

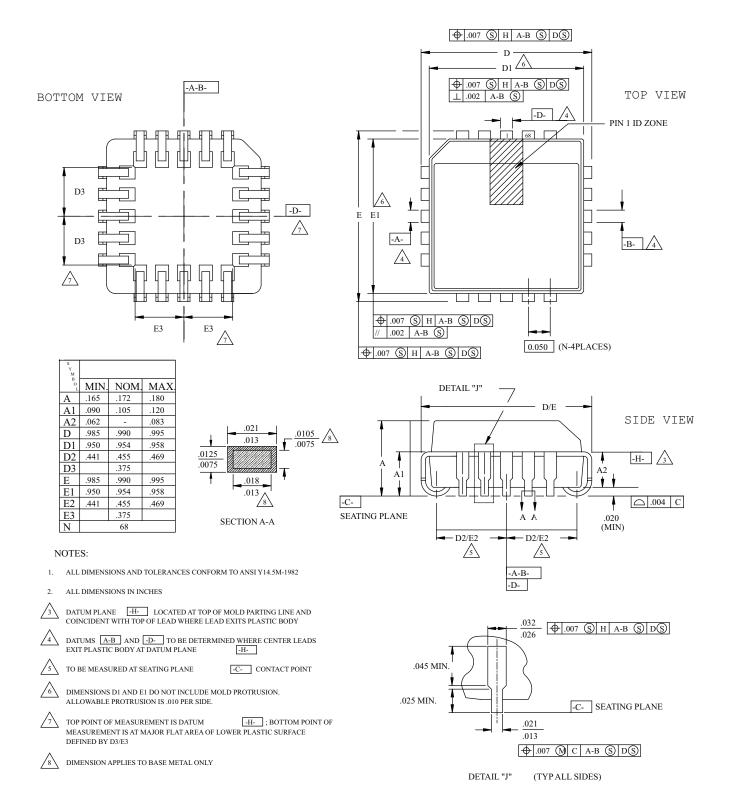
- 1 ALL DIMENSIONS AND TOLERANCE PER ASME Y 14.5M 1994.
- 2 ALL DIMENSIONS ARE IN MILLIMETERS.
- △ DIMENSION "b" IS MEASURED AT THE MAXIMUM BUMP DIAMETER PARALLEL TO PRIMARY DATUM C.
- riangle PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BUMPS.

REF.	Min.	Nom.	Max.
A	_		0.600
A1	0.167	0.199	0.232
b	0.239	0.266	0.319
D	3.055	3.106	3.155
E	3.125	3.185	3.225
D1	2	.40 BSC	2
E1	2	.40 BSC	
е	0	.40 BSC	
sD	0.353	_	0.383
sE	0.388	-	0.418
aaa	(0.030	
bbb	0.060		
ccc	0.050		
ddd	(0.015	
eee	(0.050	
	•		



68-Pin PLCC Package

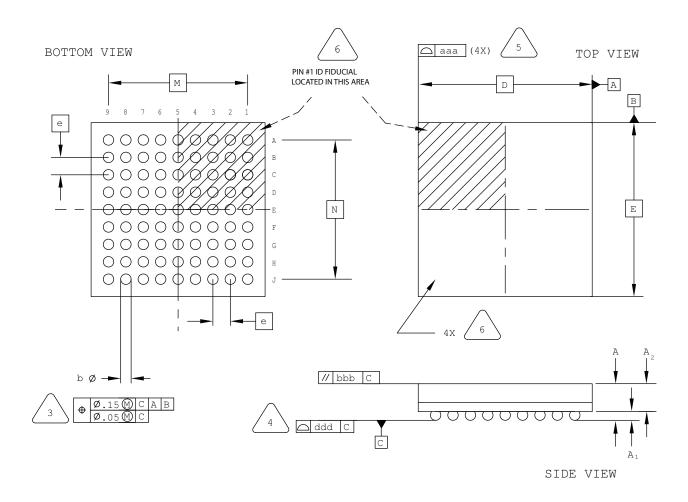
Dimensions in Inches





81-Ball csBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING
PLANE ARE DEFINED BY THE SPHERICAL
CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

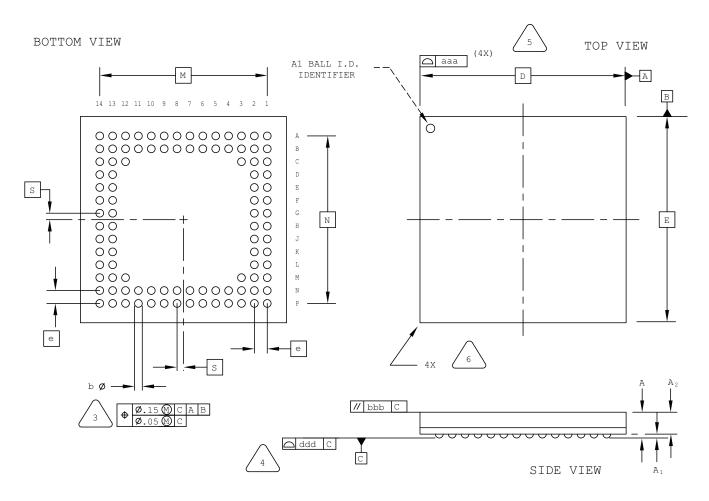


SYMBOL	MIN.	NOM.	MAX.	
А	-	ı	1.00	
A1	0.10	-	-	
A2	-	-	0.90	
D/E	5	5.00 BSC		
M/N	4.00 BSC			
b	0.20	0.25	0.30	
е	0.50 BSC			
aaa	-	_	0.10	
bbb	-	_	0.10	
ddd	_	_	0.10	



100-Ball csBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

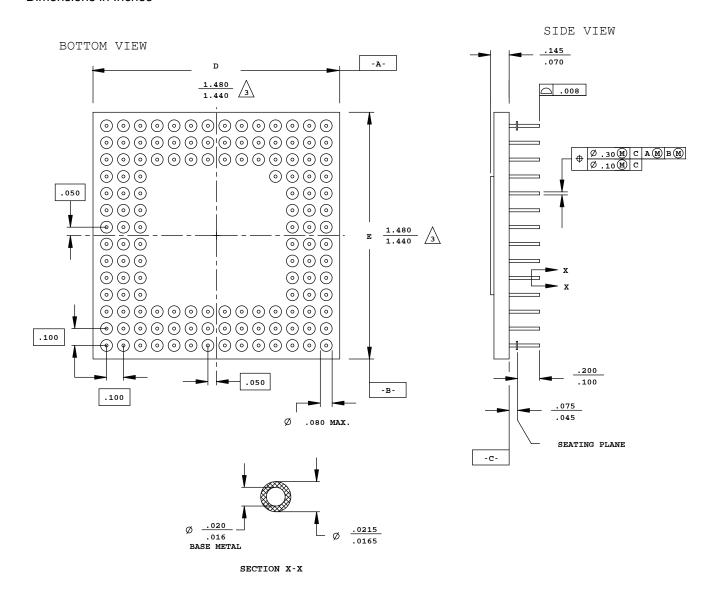


SYMBOL	MIN.	NOM.	MAX.
А	0.90	1.23	1.35
A1	0.15	_	-
A2	-	-	1.10
D/E	8	.00 BSC	
M/N	6.50 BSC		
S	0.25 BSC		
b	0.25	0.30	0.35
е	0.50 BSC		
aaa	-	_	0.10
bbb	-	-	0.10
ddd	_	_	0.08



133-Pin CPGA Package

Dimensions in Inches



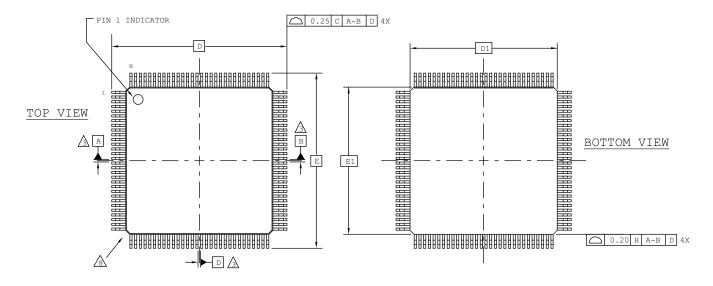
NOTES:

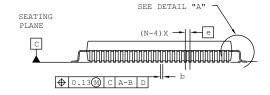
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN INCHES.
- DIMENSIONS D AND E MAY HAVE MATERIAL PROTRUSION OF
 .006 INCHES MAXIMUM ABOVE THE DIMENSION SHOWN
 NOT TO EXCEED .003 INCHES MAXIMUM PER SIDE.

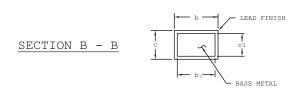


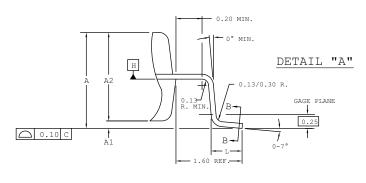
160-Pin PQFP Package

Dimensions in Millimeters









NOTES:

- 1.0 DIMENSIONING AND TOLERANCING PER ANSI Y14.5 1982.
- 2.0 ALL DIMENSIONS ARE IN MILLIMETERS.
- $\stackrel{\textstyle \wedge}{\Im}$ datums a, b and d to be determined at datum plane H.
- 4.0 DIMENSIONS D1 AND E1 D0 NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS 0.254 MM ON D1 AND E1 DIMENSIONS.
- 5.0 THE TOP OF PACKAGE MAY BE SMALLER THAN THE BOTTOM OF THE PACKAGE BY 0.15 MM.
- 6.0 SECTION B-B:
 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE
 LEAD BETWEEN 0.10 AND 0.25 MM FROM THE LEAD TIP.
- 7.0 A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.
- & EXACT SHAPE OF EACH CORNER IS OPTIONAL.

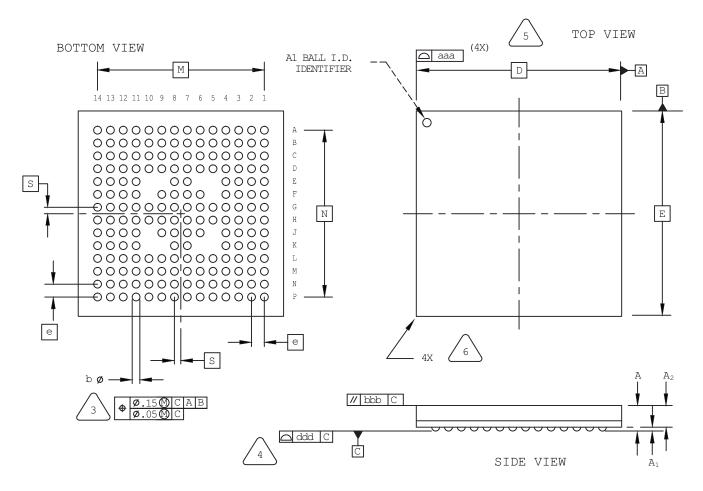
A EXACT SHAPE OF EXPOSED HEATSINK IS OPTIONAL.

SYMBOL	MIN.	NOM.	MAX.
A	=	-	4.10
A1	0.25	-	0.50
A2	3.20	3.40	3.60
D	31.20 BSC		
D1		28.00 BSC	!
E		31.20 BSC	!
E1		28.00 BSC	!
L	0.73	0.88	1.03
N		160	
е		0.65 BSC	
b	0.22	-	0.40
b1	0.22	0.30	0.36
С	0.11	-	0.23
c1	0.11	0.15	0.19



184-Ball csBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

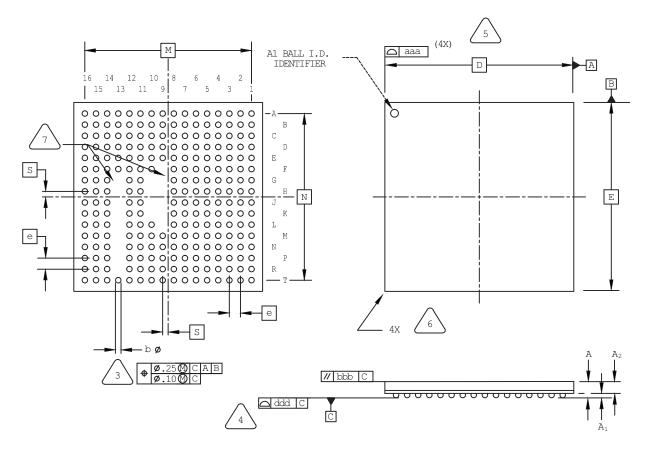


SYMBOL	MIN.	NOM.	MAX.
А	1.20	1.35	1.50
A1	0.16	_	-
A2	_	_	1.34
D/E	8	.00 BSC	
M/N	6.50 BSC		
S	0.25 BSC		
b	0.25	0.30	0.35
е	0.50 BSC		
aaa	_	_	0.10
bbb	_	_	0.10
ddd	_	_	0.08



237-Ball ftBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.



EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.



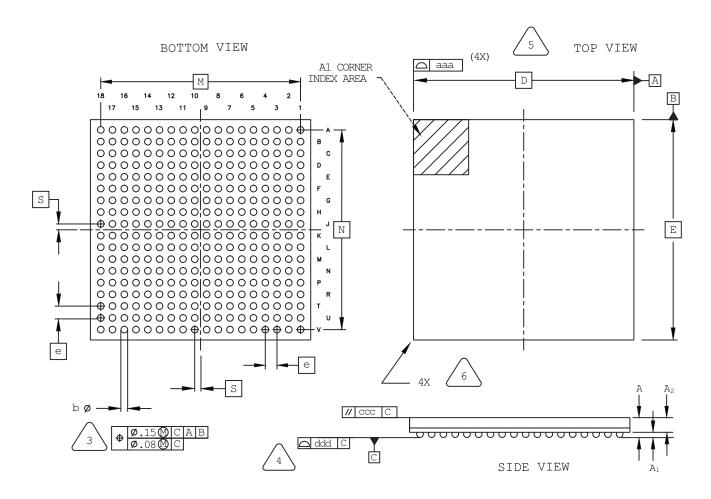
DEPOPULATED 13G TO 13R, 10G TO 10K, AND 9F TO 9L.

MIN.	NOM.	MAX.
1.40	1.55	1.70
0.30	-	-
_	-	1.24
1	7.0 BSC	
15.0 BSC		
0.50 BSC		
0.40	0.50	0.60
1.0 BSC		
_	-	0.20
_	-	0.25
_	-	0.15
	1.40 0.30 - 1.0 0.40	1.40 1.55 0.30 - 17.0 BSC 15.0 BSC 0.50 BSC 0.40 0.50



324-Ball caBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C.



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

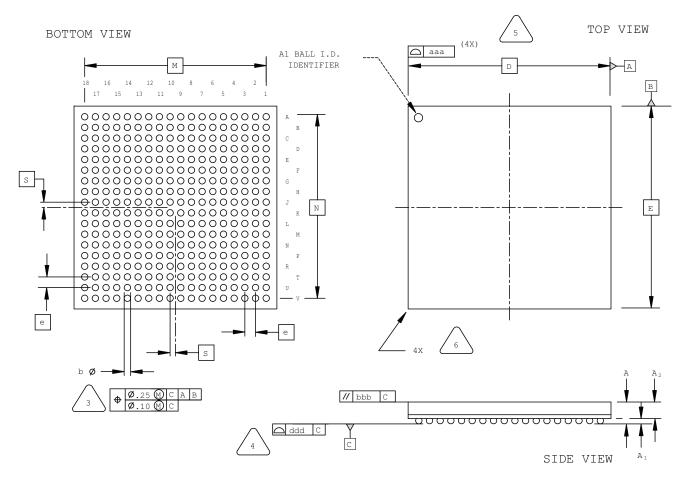


SYMBOL	MIN.	NOM.	MAX.
А	-	-	1.70
A1	0.25	0.35	1
A2	0.80	1.00	-
D/E	1.	5.0 BSC	
M/N	13.6 BSC		
S	0.40 BSC		
b	0.40	0.45	0.50
е	0.80 BSC		
aaa	_	_	0.15
ccc	_	_	0.20
ddd	_	_	0.20



324-Ball ftBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

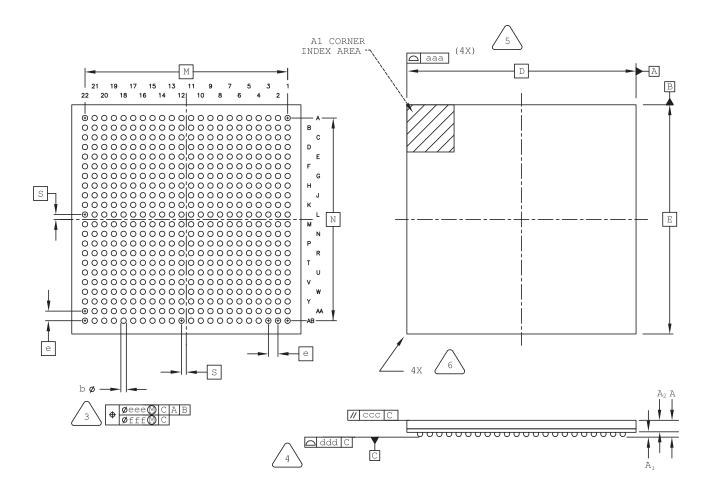


SYMBOL	MIN.	NOM.	MAX.
A	1.25	1.50	1.70
A1	0.30	-	1
A2	-	-	1.40
D/E	19	9.0 BSC	
M/N	17.0 BSC		
S	0.50 BSC		
b	0.40	0.60	0.70
е	1.00 BSC		
aaa	_	_	0.20
bbb	_	_	0.25
ddd	-	-	0.20



484-Ball caBGA Package (19x19 mm Body)

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.



EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.

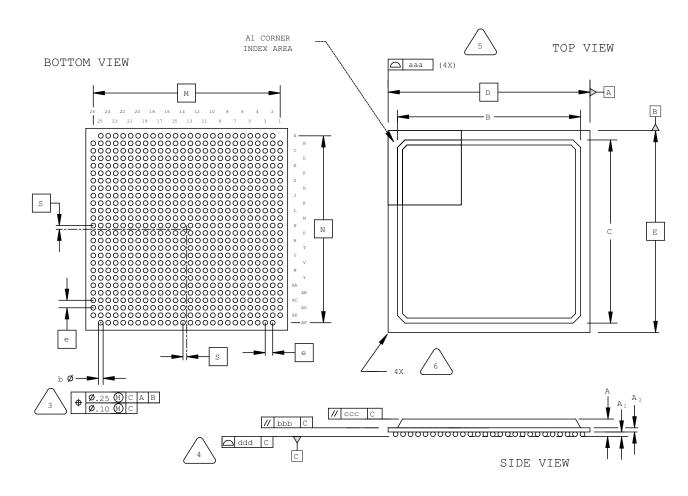
7 JEDEC REFERENCE: MO-275A

SYMBOL	MIN.	NOM.	MAX.
А	-	_	1.70
A1	0.25	-	-
A2	0.65	-	_
D/E	1	9.0 BSC	
M/N	16.8 BSC		
S	0.40 BSC		
b	0.40	0.45	0.50
е	0.80 BSC		
aaa	_	-	0.15
ccc	_	_	0.20
ddd	_	_	0.20
eee	_	_	0.15
fff	_	_	0.08



672-Ball fpBGA Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

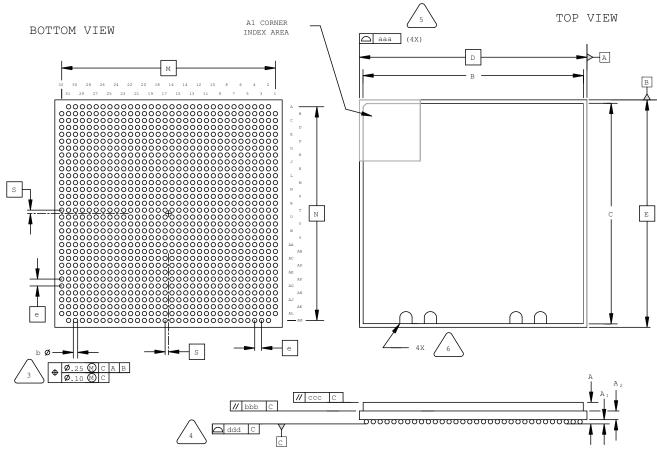


SYMBOL	MIN.	NOM.	MAX.
А	1.70	2.15	2.60
A1	0.30	0.50	0.70
A2	0.30	0.50	0.70
B/C	23.80	24.80	25.80
D/E	27.00 BSC		
M/N	25.00 BSC		
S	0.50 BSC		
b	0.50	0.60	0.70
е	1.00 BSC		
aaa	-	-	0.20
bbb	-	_	0.25
ccc	-	-	0.35
ddd	_	_	0.20



1020-Ball Organic fcBGA Package

Dimensions in Millimeters



SIDE VIEW

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

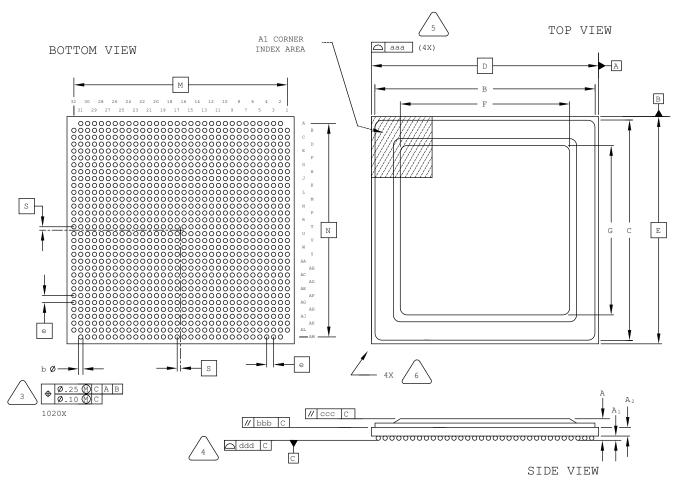


SYMBOL	MIN.	NOM.	MAX.
А	2.52	3.12	3.82
A1	0.30	0.50	0.70
A2	1	.24 REF	
B/C	31.10	32.00	32.90
D/E	33.00 BSC		
M/N	31.00 BSC		
S	0.50 BSC		
b	0.50	0.60	0.70
е	1.00 BSC		
aaa	-	-	0.20
bbb	-	=	0.25
ccc	-	=	0.35
ddd	-	=	0.20



1020-Ball Organic fcBGA Package Rev. 2

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.

2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.

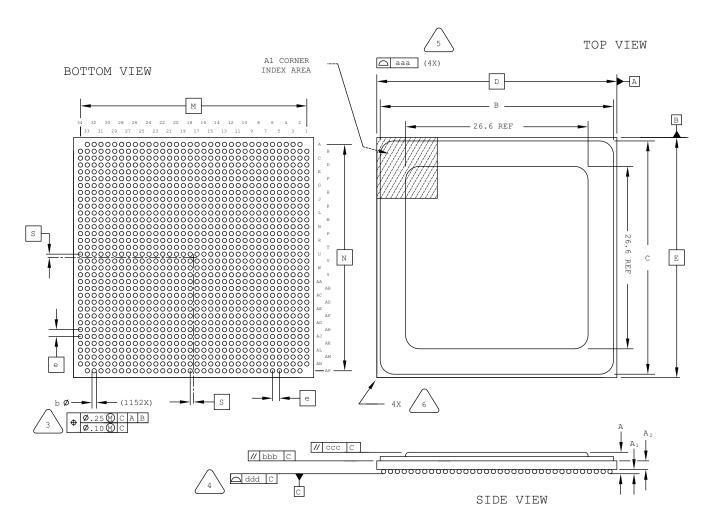


SYMBOL MIN. NOM. MAX. A 2.55 2.90 3.25 A1 0.40 0.50 0.60 A2 1.20 REF B/C 32.40 32.60 32.80 D/E 33.00 BSC F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC aaa - - 0.20				
A1 0.40 0.50 0.60 A2 1.20 REF B/C 32.40 32.60 32.80 D/E 33.00 BSC F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	SYMBOL	MIN.	NOM.	MAX.
A2 1.20 REF B/C 32.40 32.60 32.80 D/E 33.00 BSC F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	А	2.55	2.90	3.25
B/C 32.40 32.60 32.80 D/E 33.00 BSC F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	A1	0.40	0.50	0.60
D/E 33.00 BSC F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	A2	1	.20 REF	
F/G 24.50 24.60 24.70 M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	B/C	32.40	32.60	32.80
M/N 31.00 BSC S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	D/E	33.00 BSC		
S 0.50 BSC b 0.50 0.60 0.70 e 1.00 BSC	F/G	24.50	24.60	24.70
b 0.50 0.60 0.70 e 1.00 BSC	M/N	31.00 BSC		
e 1.00 BSC	S	0.50 BSC		
	b	0.50	0.60	0.70
aaa 0.20	е	1.00 BSC		
	aaa	-	-	0.20
bbb 0.25	bbb	-	-	0.25
ccc 0.35	ccc	-	-	0.35
ddd 0.20	ddd	-	-	0.20



1152-Ball Organic fcBGA Package Option 1: LatticeSC/SCM40

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.



DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM C



PRIMARY DATUM C AND SEATING PLANE ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.



BILATERAL TOLERANCE ZONE IS APPLIED TO EACH SIDE OF THE PACKAGE BODY.



SYMBOL	MIN.	NOM.	MAX.
A	2.55	2.90	3.25
A1	0.35	0.50	0.65
A2	1	.20 REF	
B/C	34.25	34.50	34.75
D/E	35.00 BSC		
M/N	33.00 BSC		
S	0.50 BSC		
b	0.50	0.60	0.70
е	1.00 BSC		
aaa	-	-	0.20
bbb	-	-	0.25
ccc	-	-	0.35
ddd	_	_	0.20



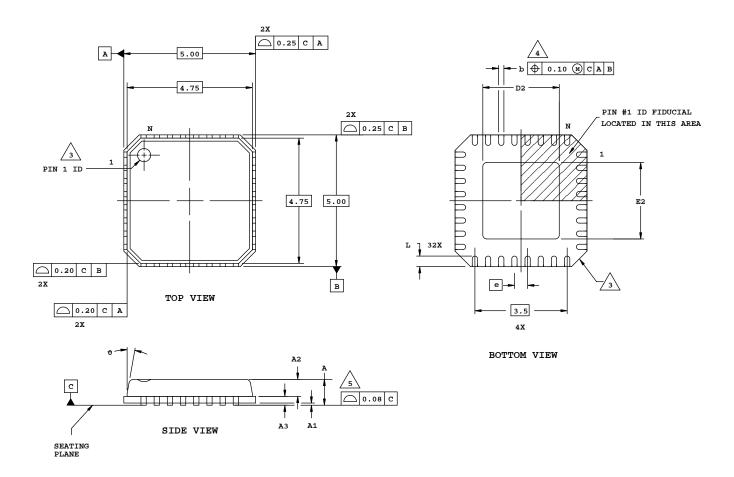
Date	Version	Change Summary	
May 2009	02.0	Added new 256-ball caBGA and 256-ball ftBGA (Option A) packages.	
April 2009	01.9	Added 24-pin QFNS package diagram. Removed discontinued and obsolete package (16 SOIC, 20 SOIC, 24 SOIC, 28 SOIC, 16 PDIP, 240 MQFP, 269 fcBGA, 304 MQFP, SBGA).	
December 2008	01.8	Added 32-pin QFNS, 48-pin QFNS and 64-pin QFNS package diagrams.	
November 2008	01.7	Added 64-ball ucBGA and 132-ball ucBGA package diagrams.	
April 2008	01.6	Added 64-ball csBGA and 144-ball csBGA package diagrams.	
November 2007	01.5	Added 1152-ball fpBGA package diagram.	
October 2007	01.4	Revised 1036 ftSBGA package diagram. Removed 1036 fpSBGA.	
June 2007	01.3	Added 1036 ftSBGA package diagram.	
February 2007	01.2	Revised 1704 fcBGA package drawing: removed lid dimension, clarified package bod dimension as the combination of substrate and lid.	
January 2007	01.1	Added Marking Orientation text for all TQFP packages (1.0 mm and 1.4 mm thick).	
October 2006	01.0	Added 64-pin TQFP and 1704-ball fcBGA package diagrams.	
_	_	Previous Lattice releases.	



Appendix A. Package Archive

32-Pin QFN (Punch Singulated) Package

Dimensions in Millimeters



NOTES: UNLESS OTHERWISE SPECIFIED

- DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS.

<u>3</u> I

EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.



DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.25 mm FROM TERMINAL TIP.



APPLIES TO EXPOSED PORTION OF TERMINALS.

SYMBOL	MIN.	NOM.	MAX.
A	-	0.85	1.00
A1	0.00	0.01	0.05
A2	0.00	0.65	1.00
A 3	0.20 REF		
D2	1.25	2.70	3.25
E2	1.25	2.70	3.25
е	0.50 BSC		
b	0.18	0.24	0.30
L	0.30	0.40	0.50
Ð	-	-	12