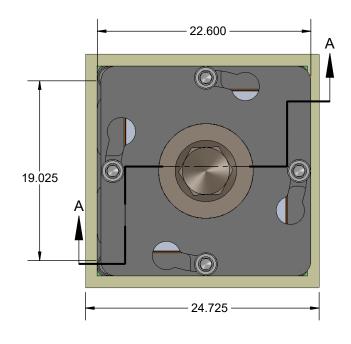
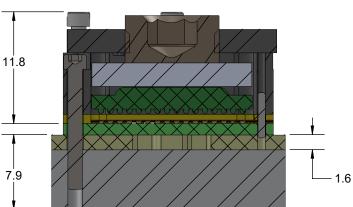
GHz BGA Socket - Direct mount, solderless

Features

- Directly mounts to target PCB (needs tooling holes) with hardware
- High speed, reliable connection
- Minimum real estate required
 Compression plate distributes forces evenly
 Easily removable swivel socket lid
- Operating temperature range -55C to +160C



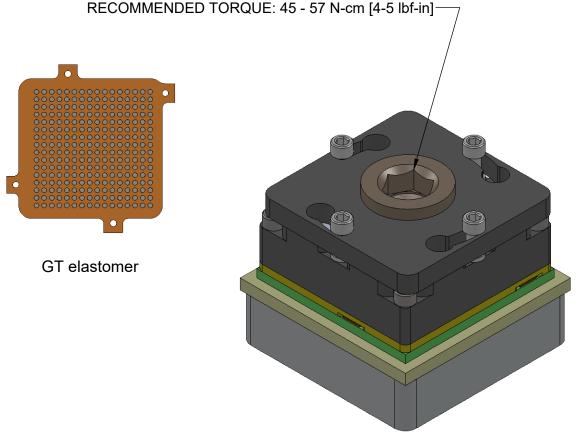




SECTION A-A Description: GT Socket for 17x17mm 1mm pitch BGA256

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

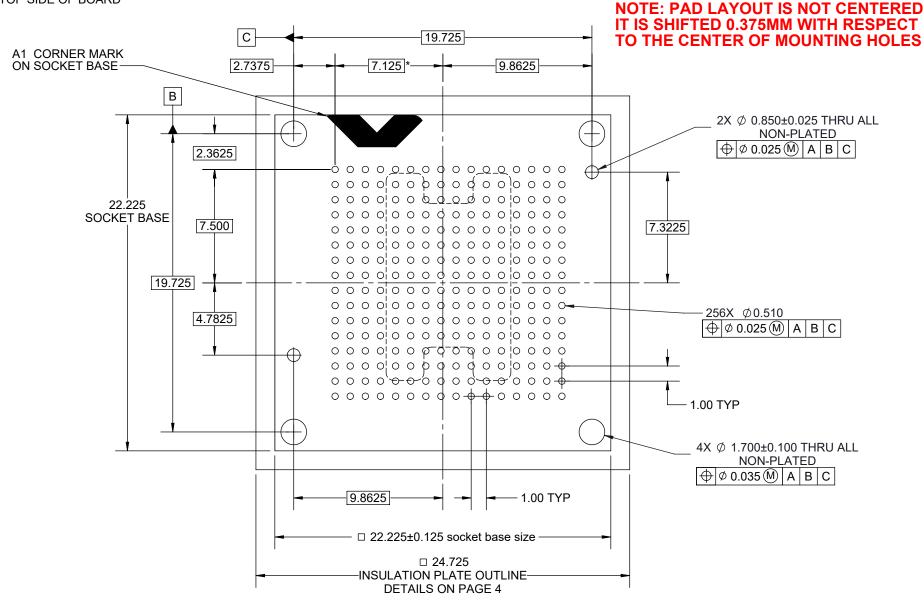


GT-BGA-2006 Drawing



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STATUS: Released	SHEET: 1 OF 4	REV. B
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 5:2
FILE: GT-BGA-2006 Dwg	DATE: 9/25/14	



Description: Recommended PCB Layout

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

Target PCB Recommendations
Total Thickness: 1.6mm min.
Plating: Gold Immersion, Silver Im

Plating: Gold Immersion, Silver Immersion or Solder PCB Pad Height: same or higher than solder mask

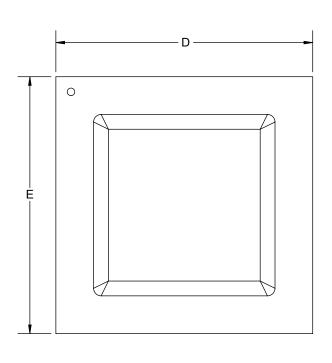
GT-BGA-2006 Drawing

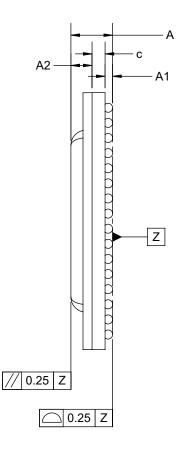


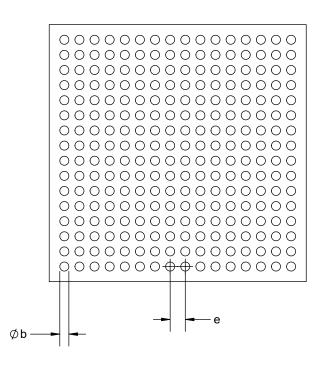
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STATUS: Released	SHEET: 2 OF 4	REV. B
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
FILE: GT-BGA-2006 Dwg	DATE: 9/25/14	

IRONWOOD COMPATIBLE PACKAGE CODE: BGA256E







- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5. Parallelism measurement shall exclude any effect of mark on top surface of package.

Description: Compatible Device

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

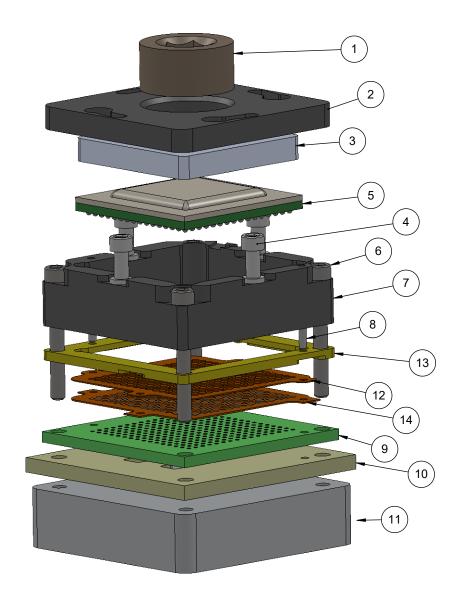
<u>Tolerances:</u> Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

DIM	MIN	NOM	MAX
Α	2.5	2.76	3.02
A1	0.4	0.5	0.6
A2	2.1	2.26	2.42
b	0.5	0.6	0.7
С	0.76	0.86	0.96
D	16.8		17.2
Е	16.8		17.2
е		1.0	

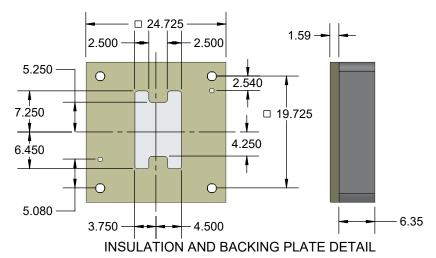
Array: 16x16

GT-BGA-2006 Drawing			
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ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
FILE: GT-BGA-2006 Dwg	DATE: 9/25/14	



ITEM NO.	DESCRIPTION	Material
1	Compression Screw	Alumium Alloy
2	Socket Lid	Aluminum Alloy
3	Compression Plate	Aluminum Alloy
4	Shoulder Screw	Stainless Steel
5	Compatible BGA	High Temp FR4
6	Mounting Screw	Stainless Steel
7	Socket Base	Aluminum Alloy
8	Dowel Pin	Stainless Steel
9	Target PCB	High Temp FR4
10	Custom Insulation Plate	High Temp FR4
11	Backing Plate	Aluminum Alloy
12	Ball Guide 17mm sqr 16x16 array 1mm pitch	Kapton Polyimide/Cirlex
13	GT IC Guide SM 17mm sqr	Torlon 4203
14	GT Elastomer 17x17mm IC 1mm pitch 16x16 array	Conductive Elastomer



Rev	Date	Initials	Description
Α	9/25/14	SH	Original
В	6/20/18	SH	Update to floating design

Description: Socket, Backing Plate Detail

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

GT-BGA-2006 Drawing
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STATUS: Released	SHEET: 4 OF 4	REV. B
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 5:2
FILE: GT-BGA-2006 Dwg	DATE: 9/25/14	