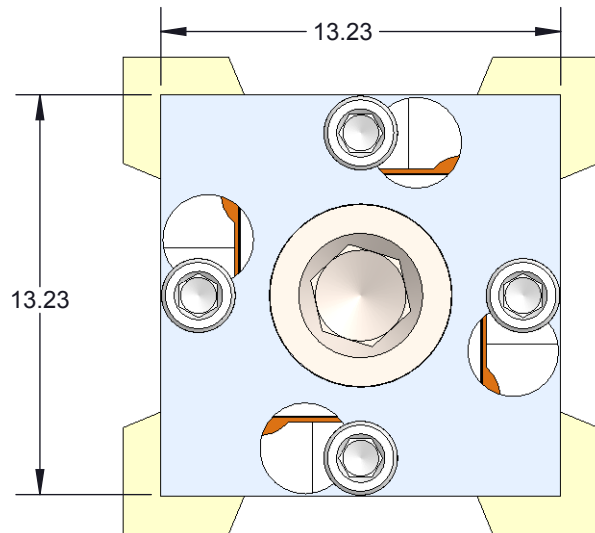


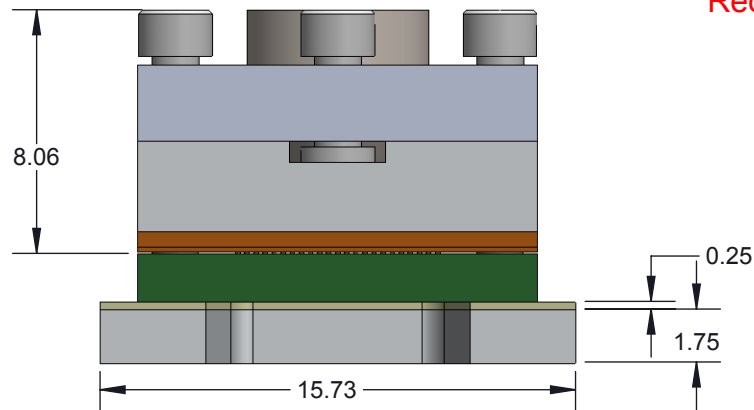
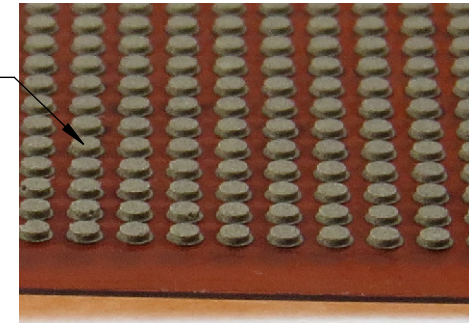
GT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



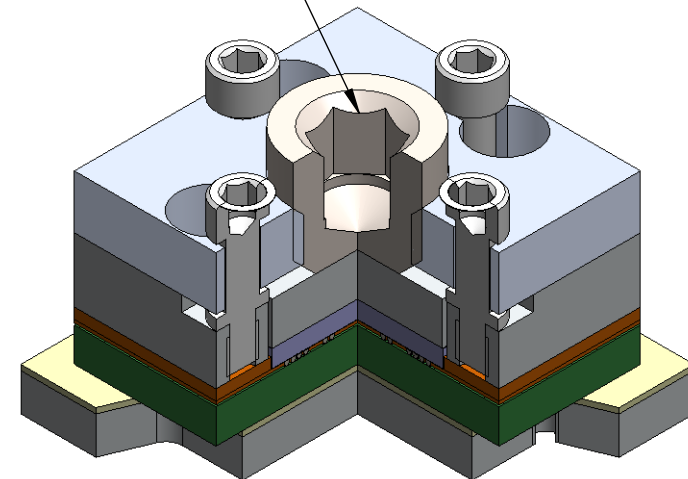
FEATURES:

- Wide temperature range (-55C to +160C)
- High current capability (up to 5A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost and short lead time

GT elastomer button



Recommended torque = 3 in lbs
(33.9 N-cm)



Description: GT-BGA 8x8mm 0.3mm pitch

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

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

GT-BGA-2022 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material:
Finish:
Weight: 4.94

STATUS: Released

ENG: S. Huang

FILE: GT-BGA-2022

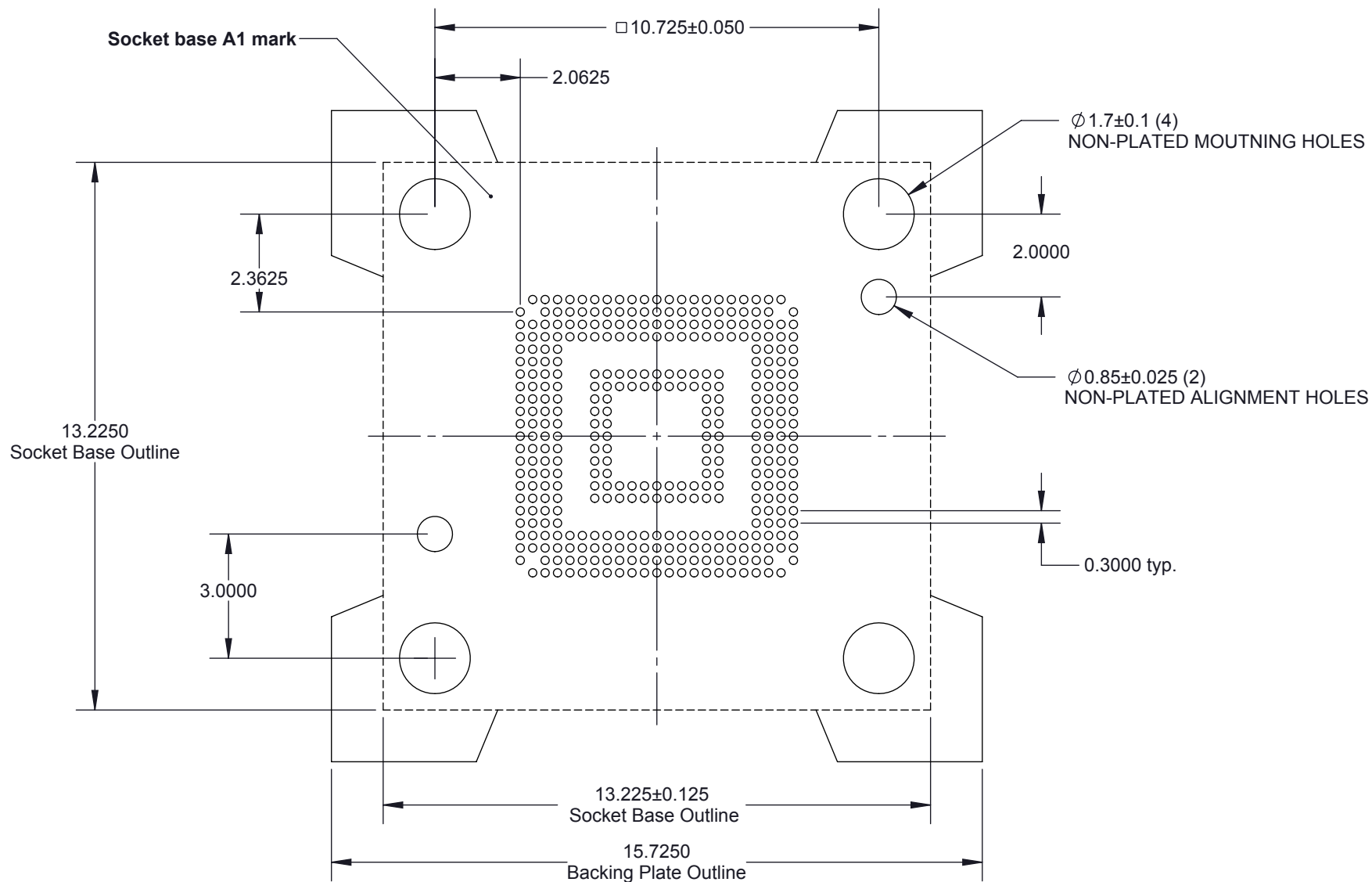
SHEET: 1 OF 4

DRAWN BY: S. Huang

DATE: 9/11/15

REV. A

SCALE: 4:1




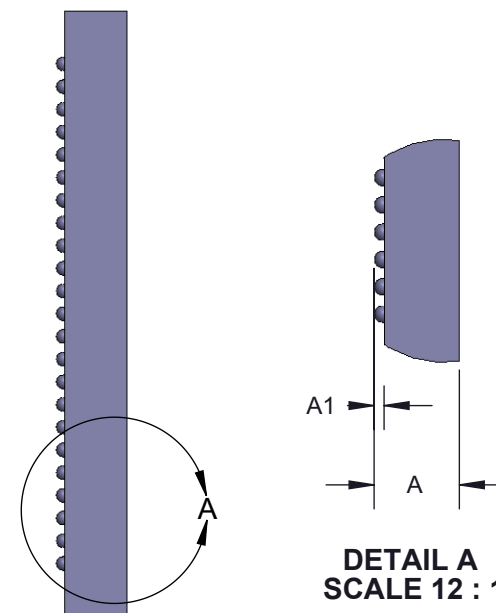
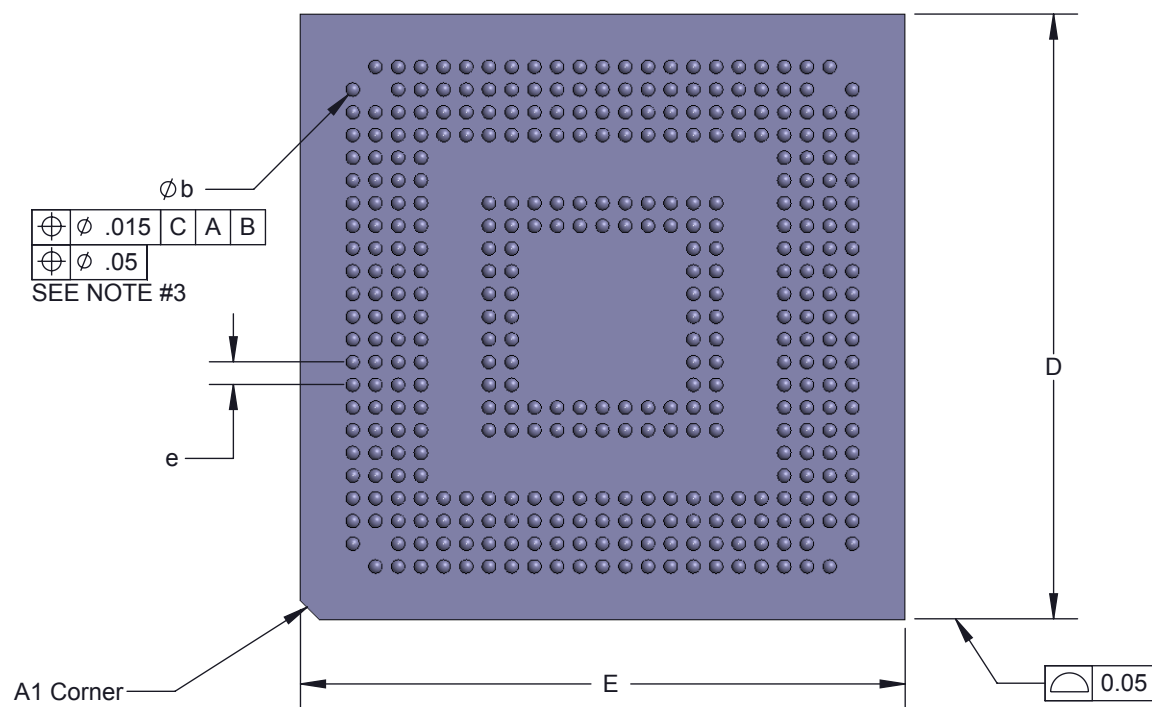
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: same or higher than solder mask

Description: Recommended PCB Layout

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-2022 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight: 4.94	STATUS: Released ENG: S. Huang FILE: GT-BGA-2022	SHEET: 2 OF 4 DRAWN BY: S. Huang DATE: 9/11/15	REV. A SCALE: 7:1
--	---	---	---	------------------------------------




DIM	Minimum	Maximum
A	0.84	1.00
A1	0.06	0.16
b	0.13	0.23
E	8.00 BSC	
D	8.00 BSC	
e	0.3 BSC	
ARRAY	23x23	
PIN COUNT	368	

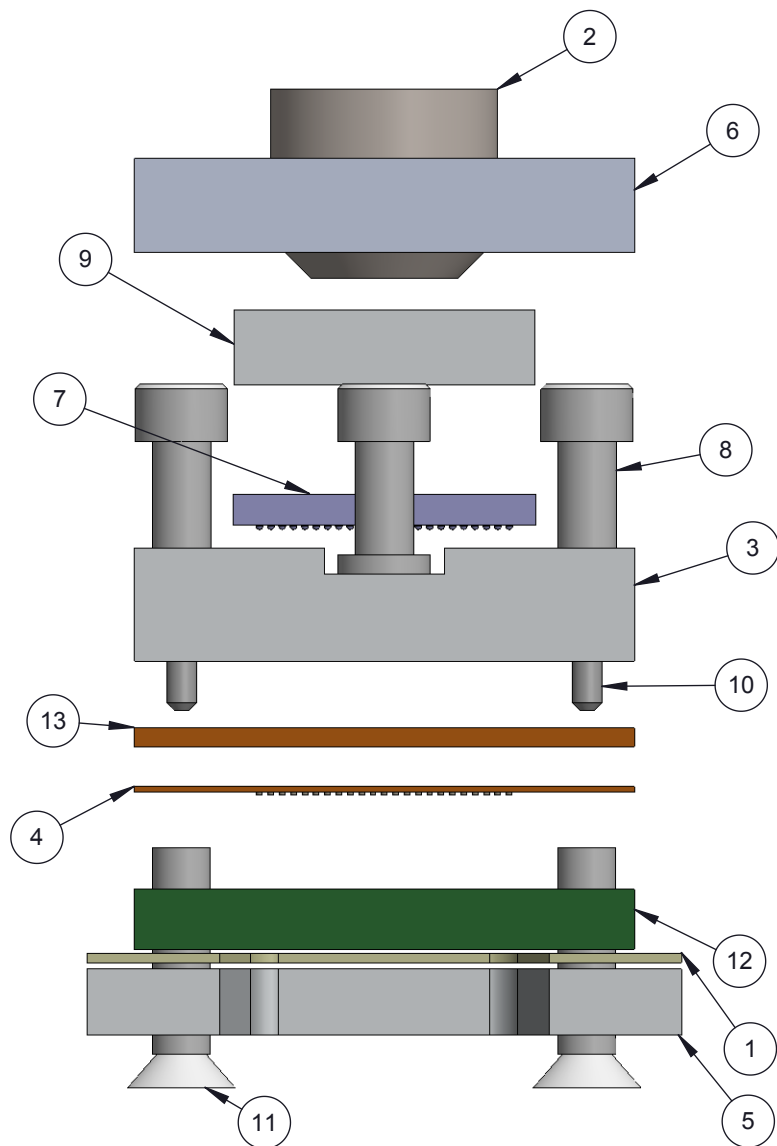
Description: Compatible BGA

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

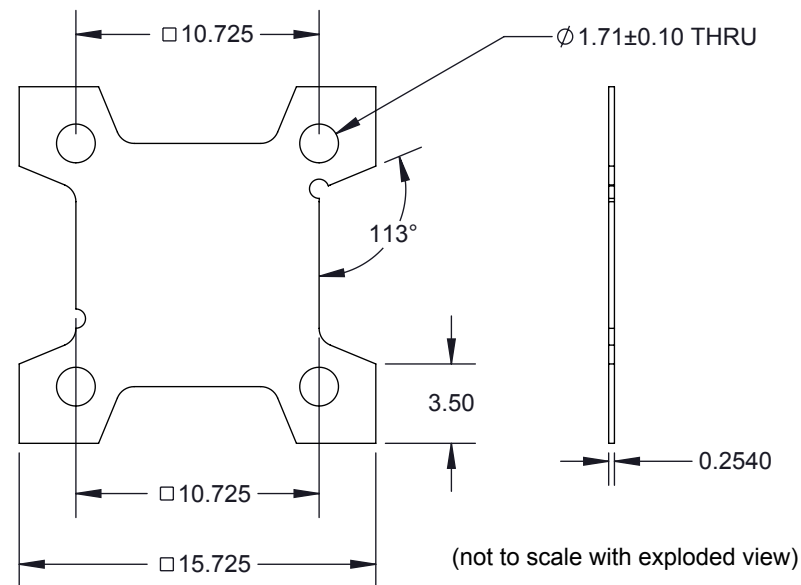
Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.0762\text{mm}$ [$\pm 0.003"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

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.

	GT-BGA-2022 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight: 4.94	STATUS: Released	SHEET: 3 OF 4	REV. A
			ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 10:1
			FILE: GT-BGA-2022	DATE: 9/11/15	



ITEM NO.	DESCRIPTION	Material
1	Insulation plate 8mm 0.254mm thick	FR4 Standard
2	Compression Screw M6x1	Stainless Steel (18-8)
3	Socket Base SG 8mm IC 3mm thk	7075-T6 Aluminum Alloy
4	GT Elastomer 8x8mm IC 0.3mm pitch 23x23 array	Conductive Elastomer
5	Backing Plate 8x8mm IC	7075-T6 Aluminum Alloy
6	Socket Lid Swivel Lid 8mm IC	7075-T6 Aluminum Alloy
7	Daisy chained BGA368 8x8mm 0.3mm pitch 23x23 array	Material <not specified>
8	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
9	Compression Plate	7075-T6 Alumium Alloy
10	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
11	#0-80 x .25 LG, Flat Head Machine Screw	Stainless Steel (18-8)
12	PCB 0.3mm pitch	FR4
13	IC Guide for 8x8mm IC	Kapton Polyimide/Cirlex



Rev	Date	Initials	Description
A	9/11/15	SH	Original

Description: Socket Specification

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

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

GT-BGA-2022 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		Material: Finish: Weight: 4.94	STATUS: Released ENG: S. Huang FILE: GT-BGA-2022	SHEET: 4 OF 4 DRAWN BY: S. Huang DATE: 9/11/15	REV. A SCALE: 5:1
---	--	--------------------------------------	--	--	----------------------