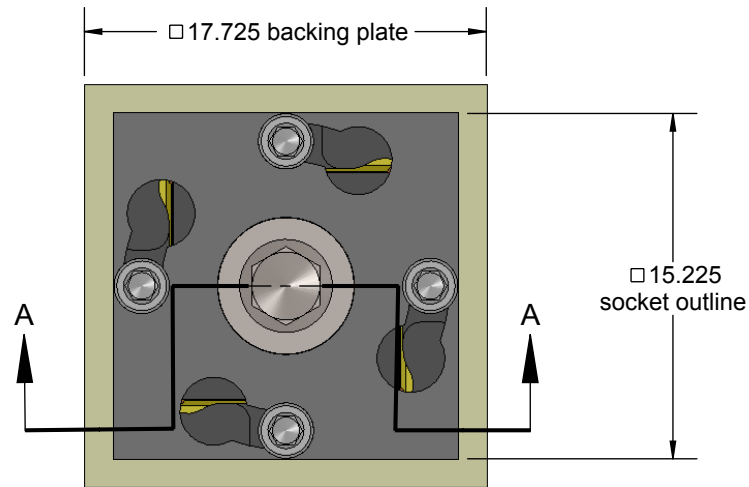


Silver Button (GT) BGA Socket - Direct mount, solderless



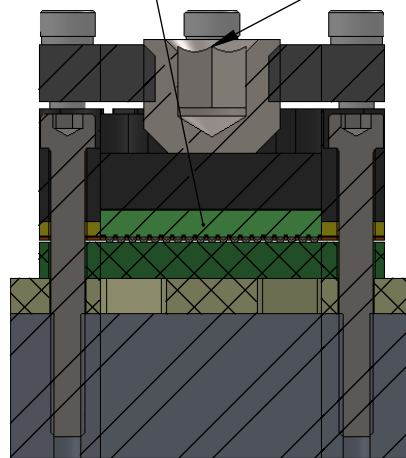
Features

- Directly mounts to target PCB (needs tooling holes) with hardware
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Ball guide prevents over compression of elastomer
- Easily removable swivel socket lid

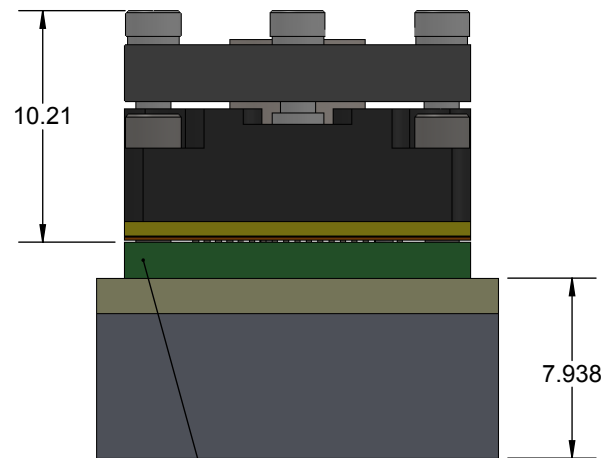
TOP VIEW

customer's BGA device

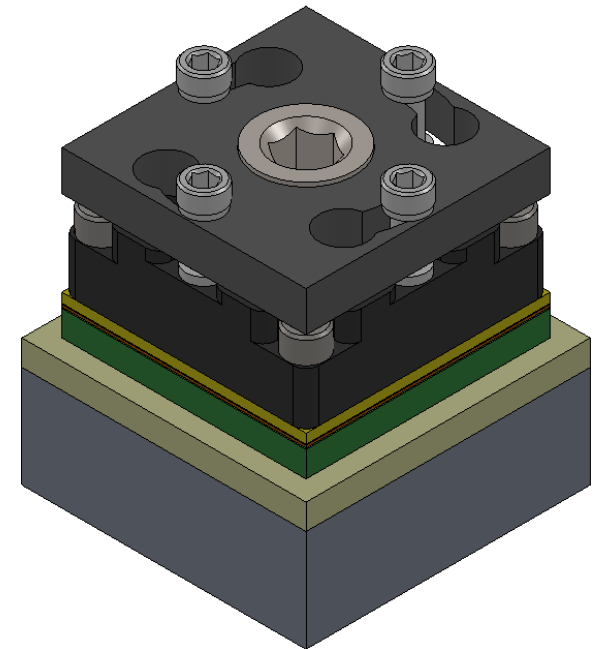
Recommended torque 1 in lb.



SECTION A-A



customer's target PCB



Description: Elastomer socket for 10x10mm, 19x19, 0.5mm pitch

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

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

GT-BGA-2015 Drawing



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

Material: N/A
Finish: N/A
Weight: 12.07

STATUS: Released

ENG: S. Huang

FILE: GT-BGA-2015 Dwg

SHEET: 1 OF 4

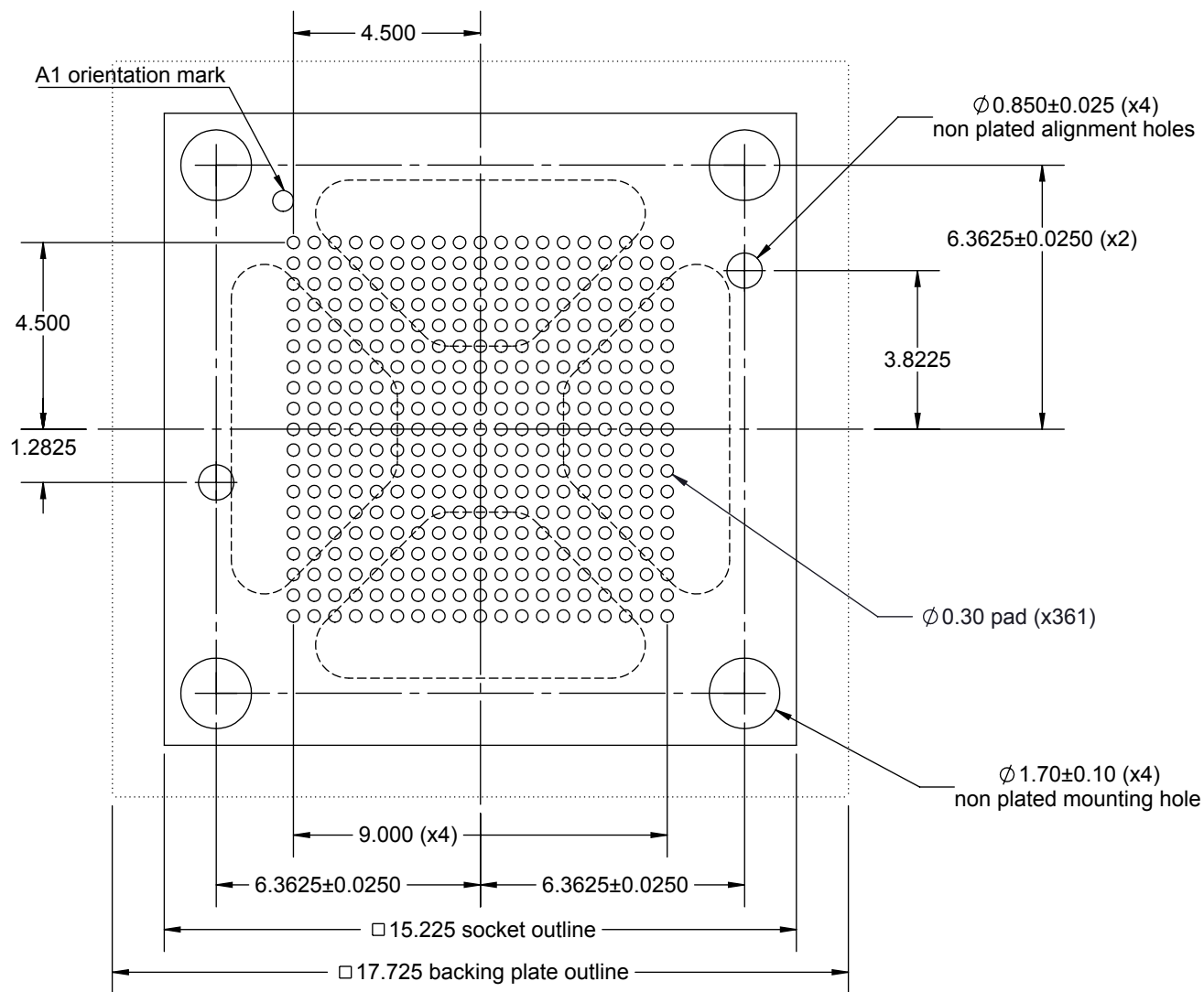
DRAWN BY: S. Huang

DATE: 11/18/14

REV. A

SCALE: 3:1

Note: Full BGA pattern shown.
Please adjust pattern according
to individual requirements.



Target PCB Recommendations

Total thickness: 1.6mm min.


Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

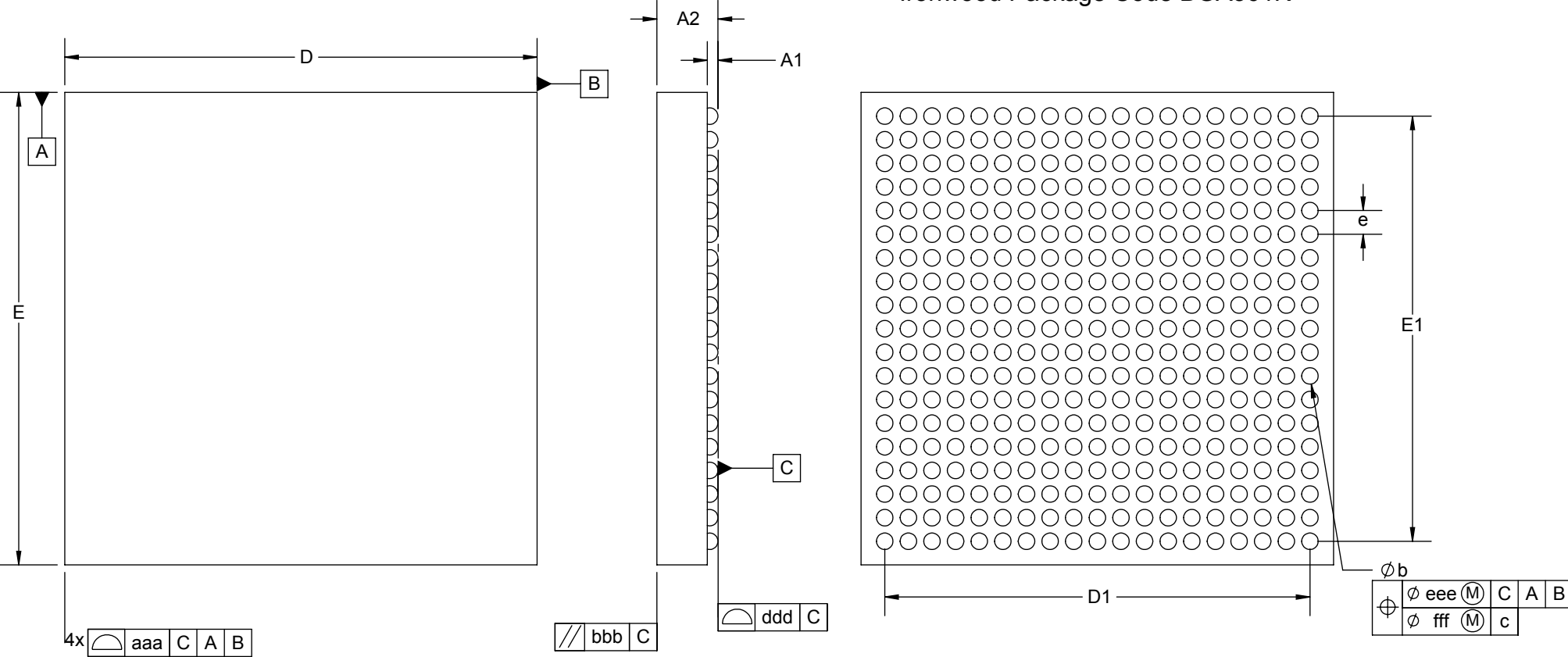
Description: Recommended PCB Layout

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

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

 GT-BGA-2015 Drawing	Material: N/A Finish: N/A Weight: 12.07	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 6:1
		FILE: GT-BGA-2015 Dwg	DATE: 11/18/14	

Ironwood Package Code BGA361K




Dimensions are in millimeters.

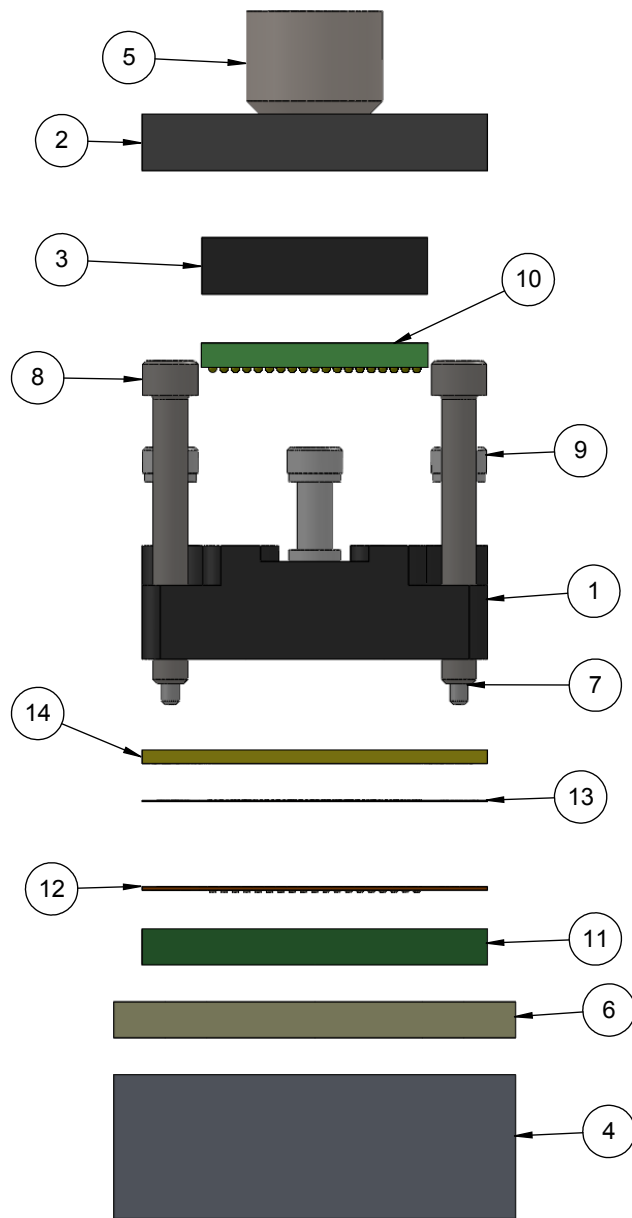
1. Interpret dimensions and tolerances per ASME Y14.5M-1994.
2. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
3. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
4. Parallelism measurement shall exclude any effect of mark on top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

Description: Compatible Device

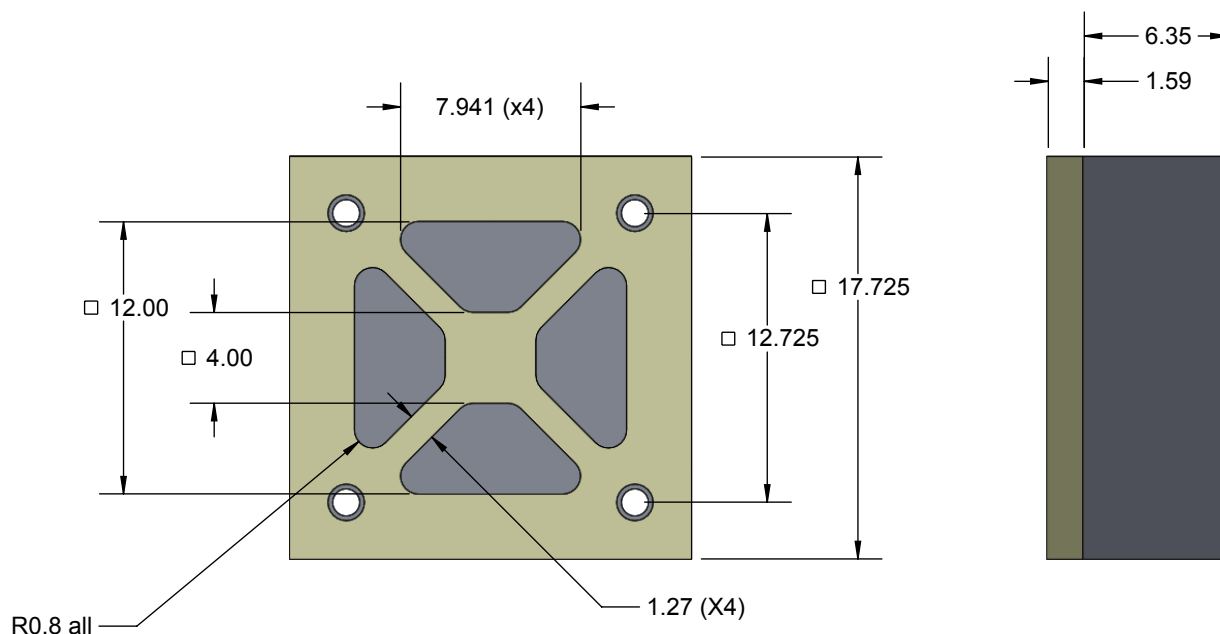
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001''$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001''$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005''$] unless stated otherwise. Materials and specifications are subject to change without notice.

19 x 19 array

<div>GT-BGA-2015 Drawing</div> <div> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</div>	Material: N/A Finish: N/A Weight: 12.07	STATUS: Released	SHEET: 3 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 8:1
		FILE: GT-BGA-2015 Dwg	DATE: 11/18/14	




ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	Backing Plate, 17.73 X 17.73	7075-T6 Aluminum Alloy
5	Compression Screw M6x1	Stainless Steel (18-8)
6	Insulation Plate	FR4 High temp
7	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
8	#0-80 x 0.5, SH Cap Screw	Alloy Steel
9	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
10	Test Chip	
11	Target PCB	FR4
12	GT Elastomer 10x10mm IC 0.5mm pitch 19x19 array	Conductive Elastomer
13	Ball Guide, 19x19 array 0.5mm pitch 2mil thick	Kapton Polyimide/Cirlex
14	IC guide for 10x10mm device	Torlon 4203



Description: Skt, Backing Plate Detail

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

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

 GT-BGA-2015 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 12.07	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 3:1
		FILE: GT-BGA-2015 Dwg	DATE: 11/18/14	