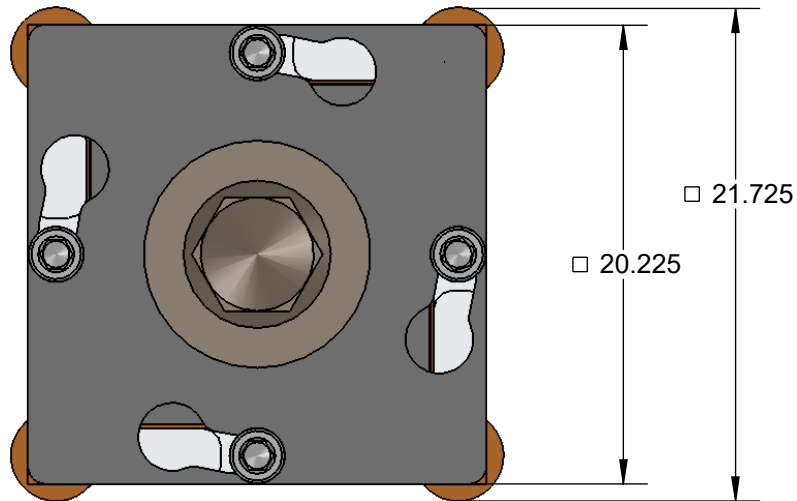


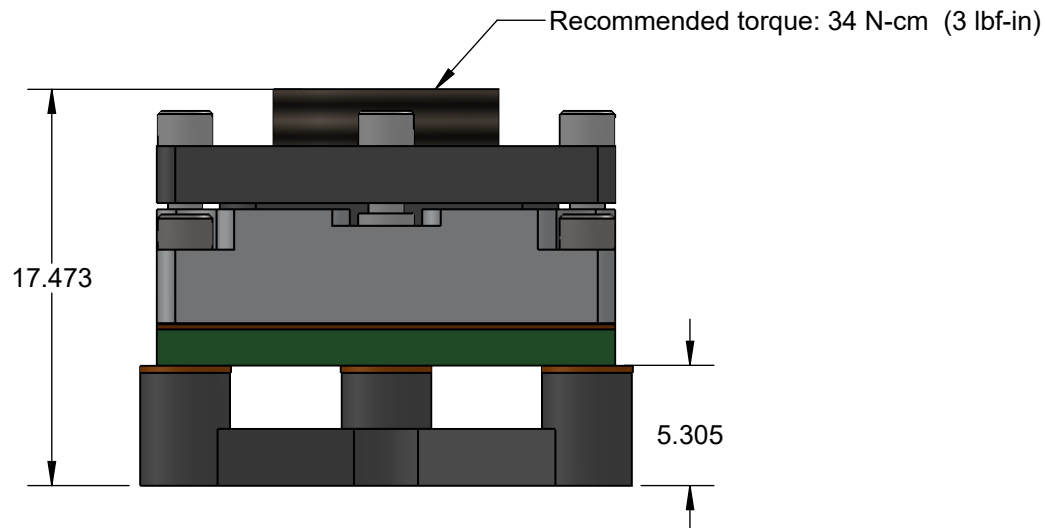
# SG-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## Features

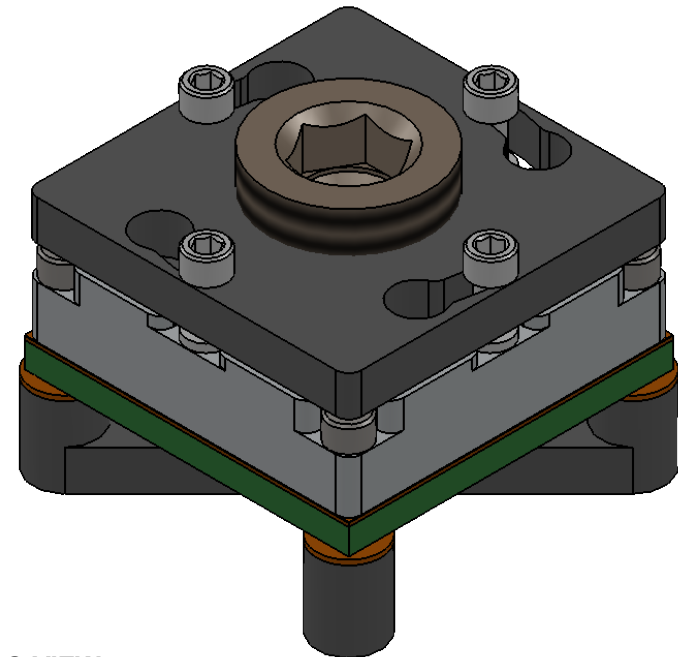
- Directly mounts to target PCB (needs tooling holes) with hardware
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Ball guide prevents over compression of elastomer
- Easily removable swivel socket lid



TOP VIEW



FRONT VIEW




ISO VIEW

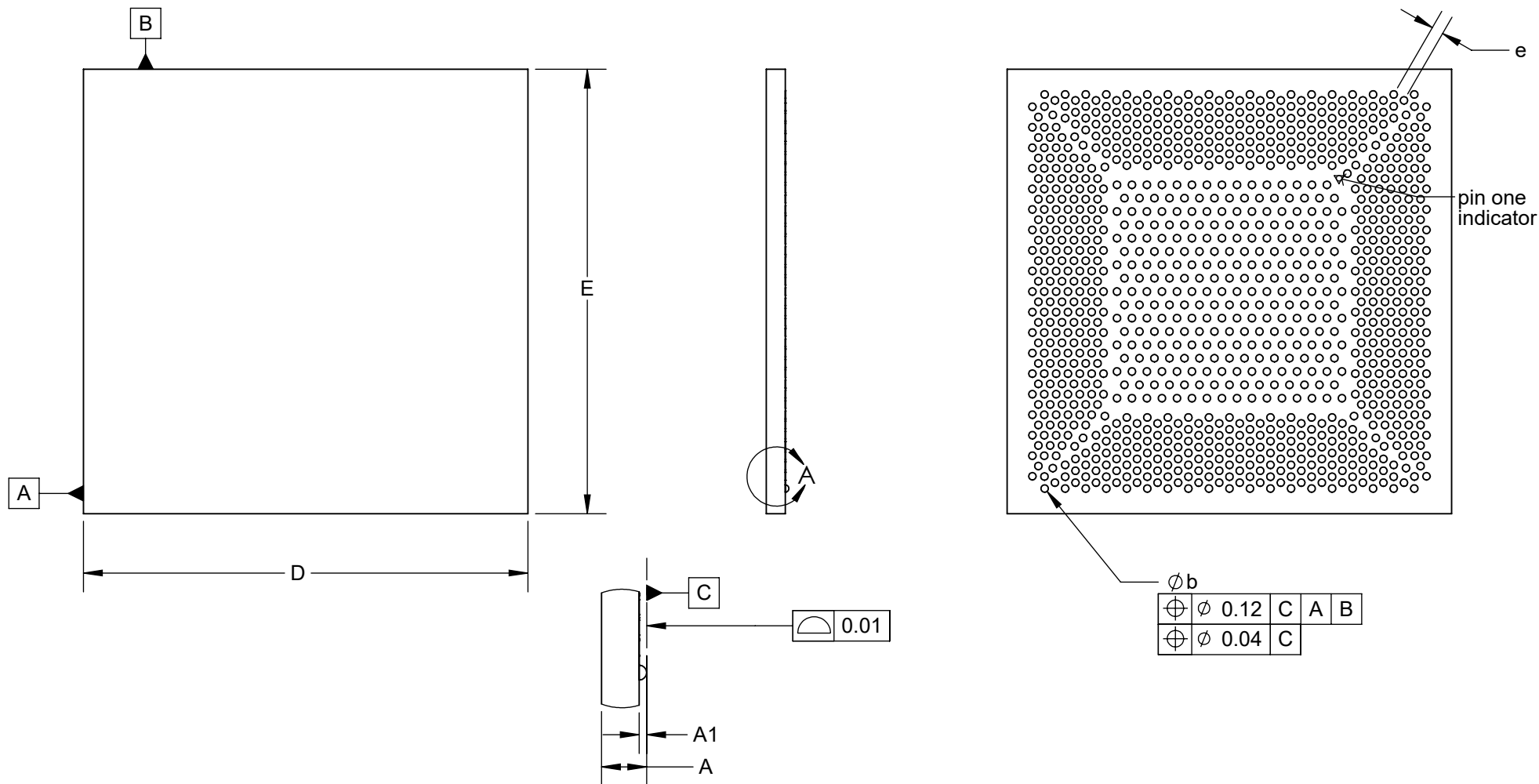
## Description: SG-BGA Socket

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.

<b>SG25-BGA-2012 Drawing</b>  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 <a href="http://www.ironwoodelectronics.com">www.ironwoodelectronics.com</a>	Material: N/A Finish: N/A Weight: 10.64	STATUS: Released ENG: M.A. Fedde FILE: SG25-BGA-2012 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 01/26/2016	REV. A SCALE: 3:1
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**DETAIL A**  
**SCALE 10 : 1**

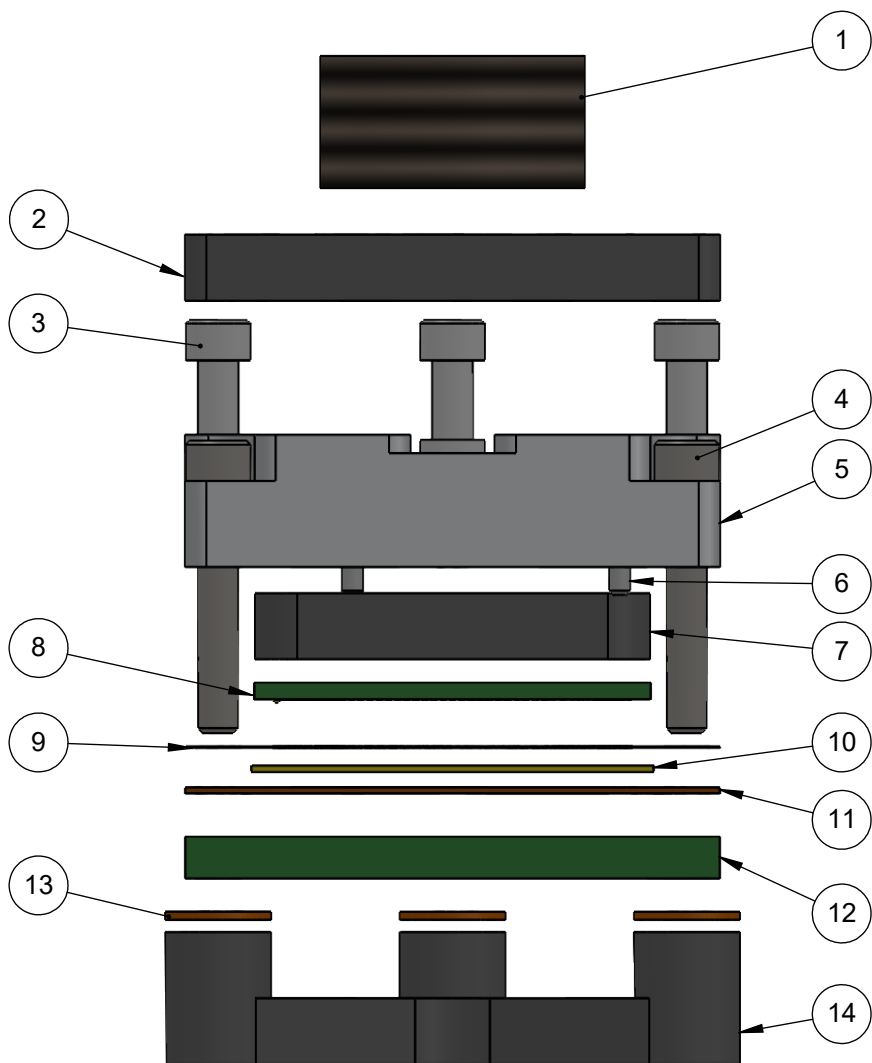
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

## Description: Compatible BGA

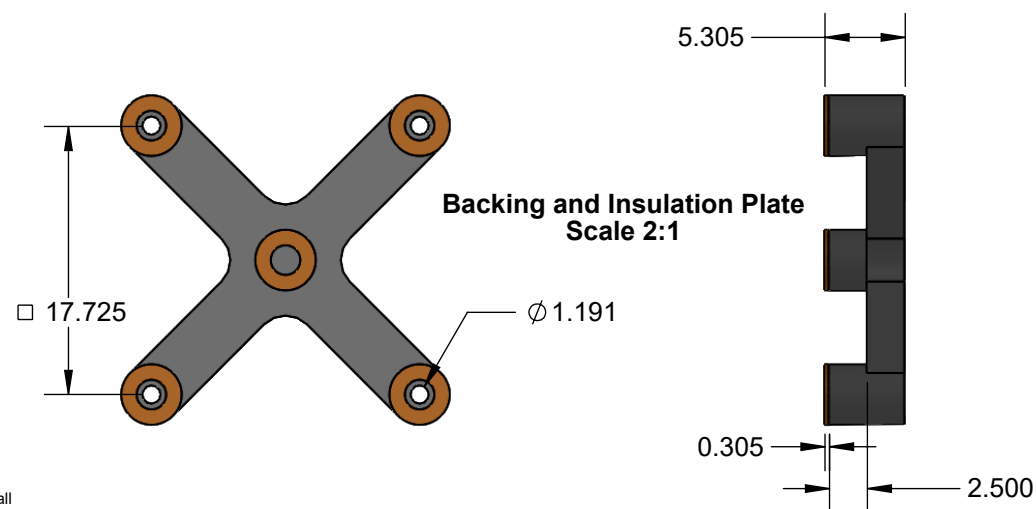
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

**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.

 <b>SG25-BGA-2012 Drawing</b> ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 10.64	STATUS: Released	SHEET: 3 OF 4	REV. A
		ENG: M.A. Fedde	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: SG25-BGA-2012 Dwg	DATE: 01/26/2016	



ITEM NO.	DESCRIPTION	Material
1	Compression Screw M10	7075-T6 Alumium Alloy
2	Socket Lid 15mm	7075-T6 Aluminum Alloy
3	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
4	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
5	Socket Base, 15mm, pocket shifted 0.125mm	7075-T6 Alumium Alloy
6	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
7	Compression Plate 15mm	7075-T6 Aluminum Alloy
8	Test Chip	Material <not specified>
9	Ball Guide	Kapton Polyimide/Cirlex
10	0.25mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symetricaly in a silicon rubber (63.5 degree angle), Thickness: 0.25mm
11	Elastomer Guide	Kapton Polyimide/Cirlex/Ultem
12	Test PCB	Material <not specified>
13	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
14	15x15mm Clamshell Backing Plate	7075-T6 Aluminum Alloy



## Description: Socket Assy, Insulation Plate

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.

### SG25-BGA-2012 Drawing



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Material: N/A  
Finish: N/A  
Weight: 10.64

STATUS: Released

ENG: M.A. Fedde

FILE: SG25-BGA-2012 Dwg

SHEET: 4 OF 4

DRAWN BY: M. Raske

DATE: 01/26/2016

REV. A

SCALE: 3.5:1