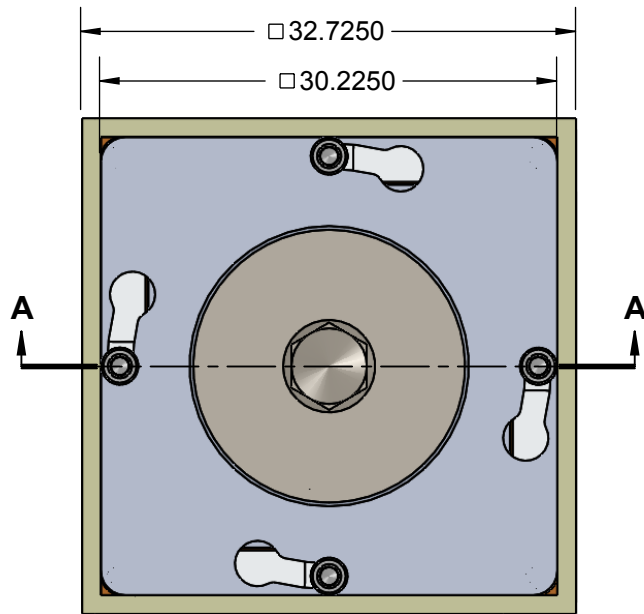


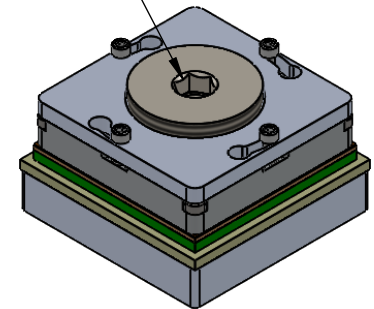
# SG-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR TEST APPLICATIONS



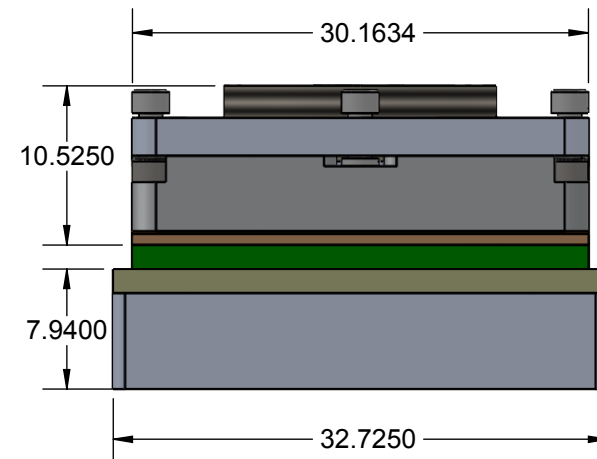
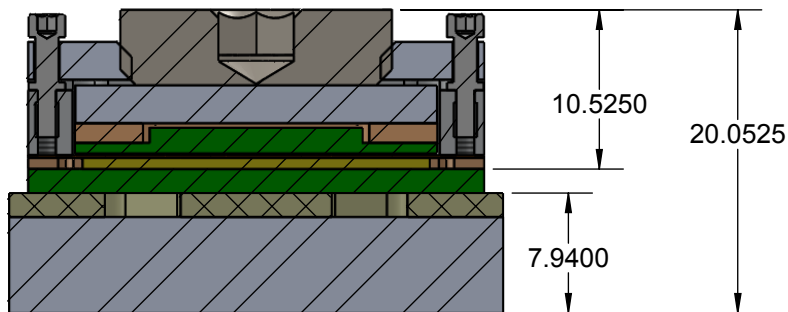
## FEATURES:

- Wide temperature range (-35C to +100C )
- Directly mounts to target PCB with hardware
- Minimum real estate required
- Compression Plate distributes force evenly
- Easily removable swivel top lid

REQUIRED TORQUE: 28.2 - 47.5 Ncm (2.5 - 4.2 lbf in)  
RECOMMENDED TOOL: TL-TORQUEDRIVER-01



## SECTION A-A



## Description: Socket for 24x24mm, 22x22 1mm pitch BGA352

Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

### C16459 Drawing



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

Material: N/A  
Finish: N/A  
Weight: 0.64

STATUS: Preliminary

ENG: E. Smolentseva

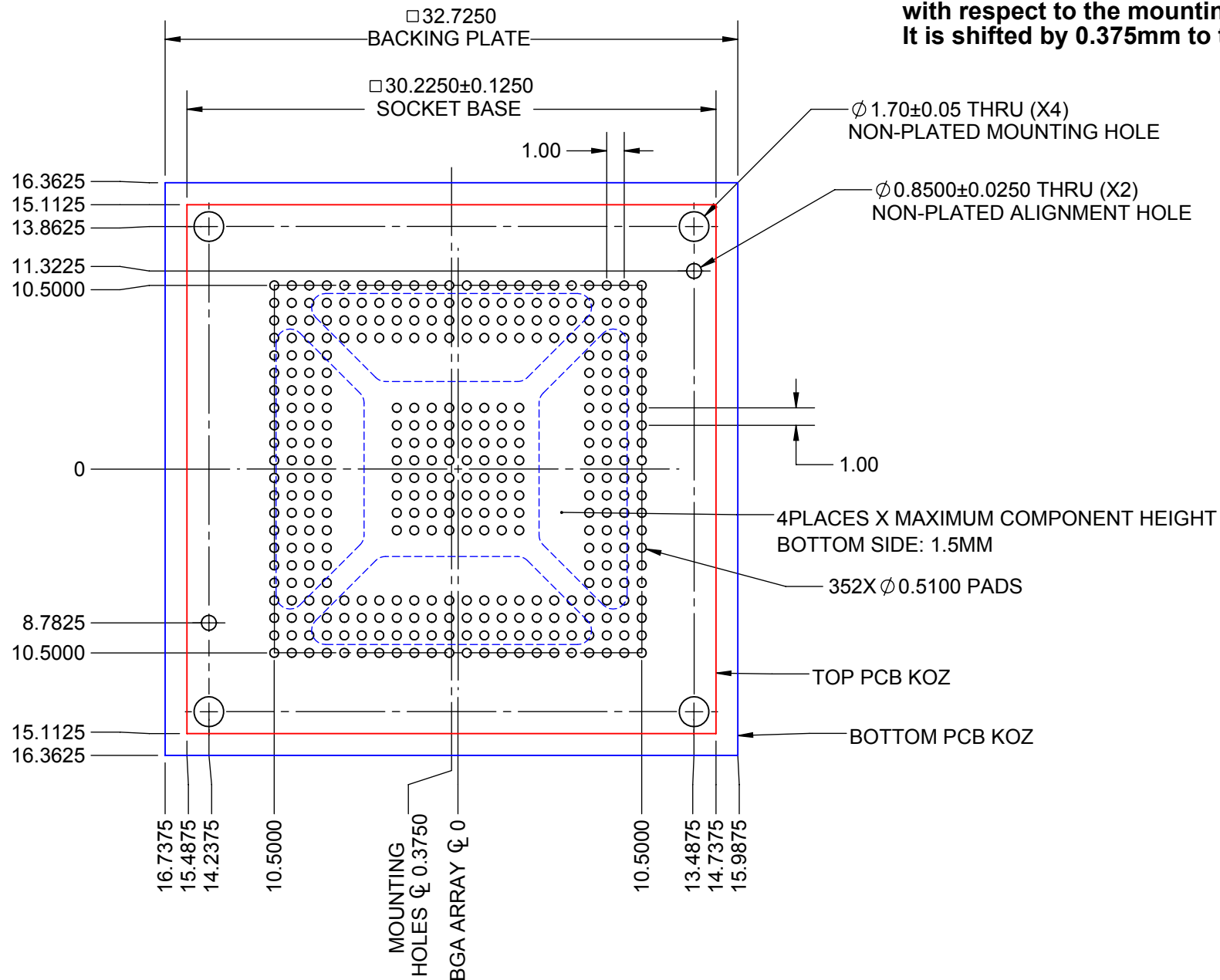
FILE: C16459 Dwg

SHEET: 1 OF 4

SCALE: 2:1

DATE: 4/3/17

REV. -.01-working




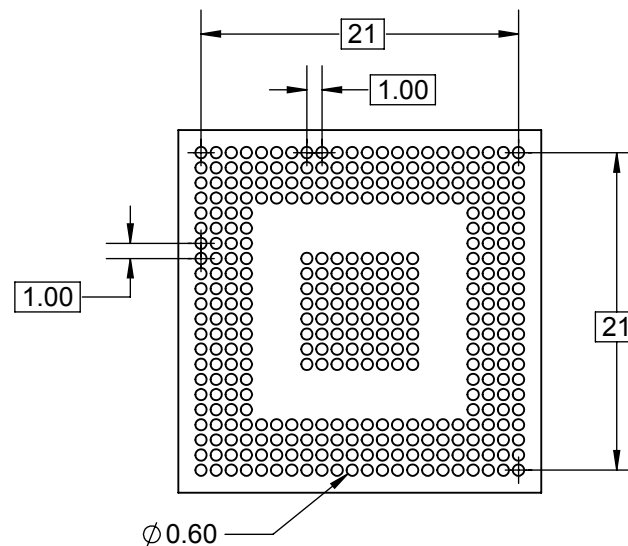
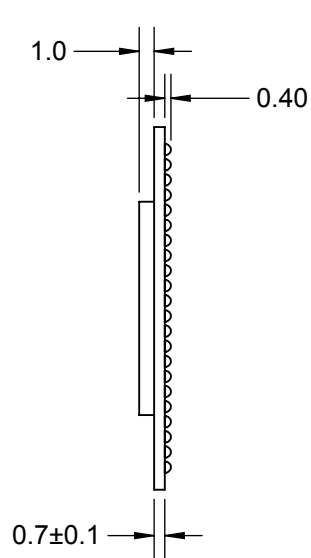
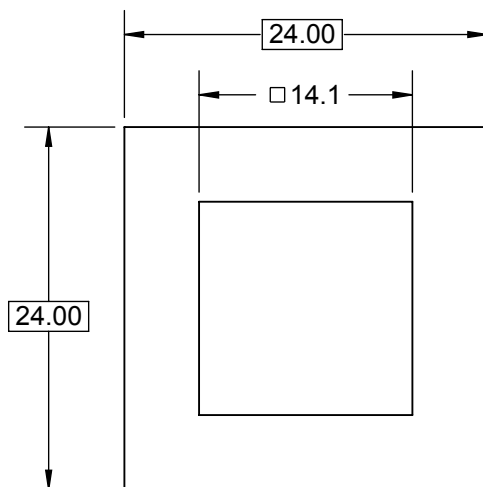
**\*Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted by 0.375mm to the center of right.**

## 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.


 <p><b>C16459 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 0.64</p>	STATUS: Preliminary	SHEET: 2 OF 4	REV. -.01-working
		ENG: E. Smolentseva	SCALE: 3:1	
		FILE: C16459 Dwg	DATE: 4/3/17	

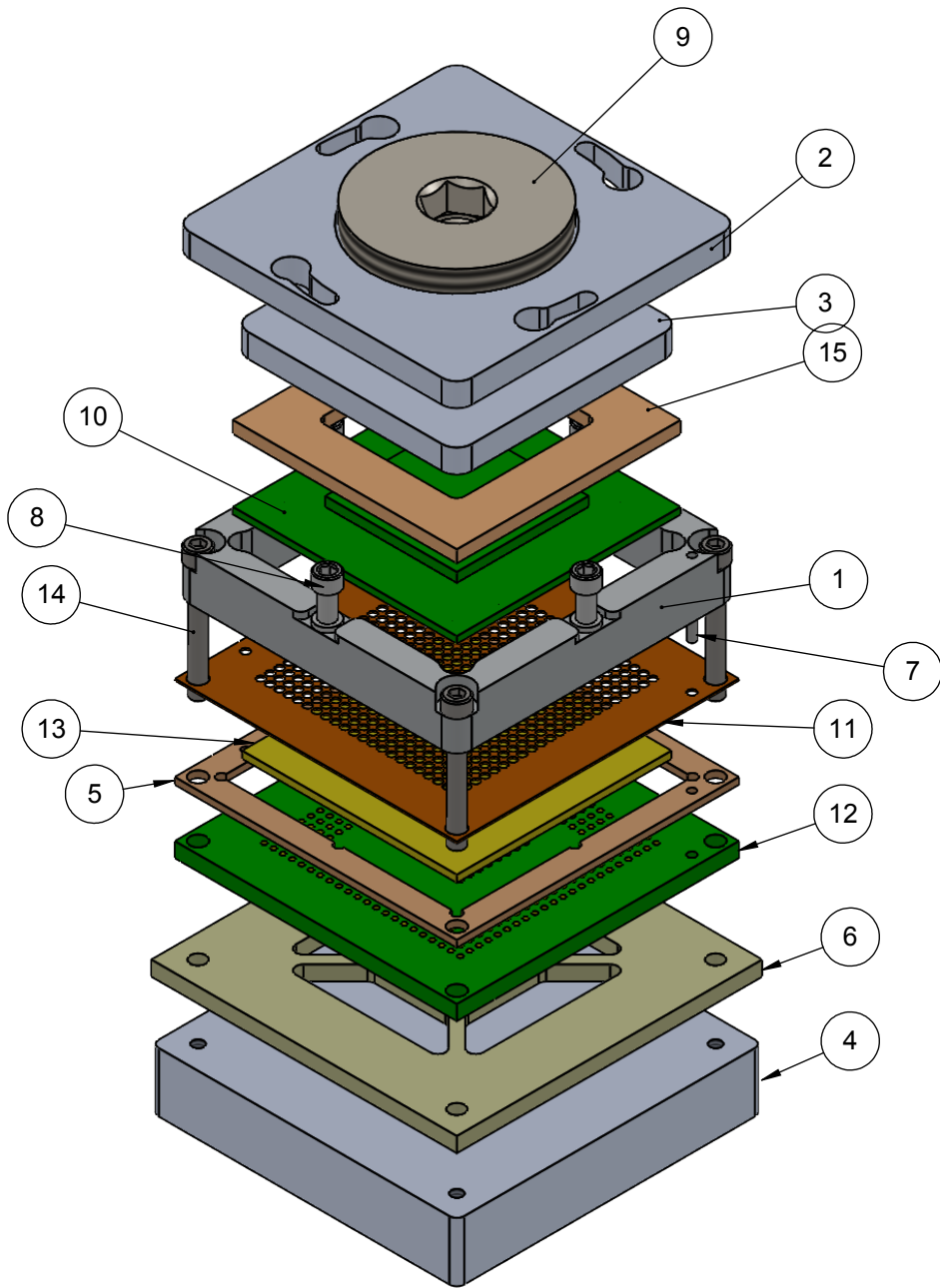


## Description: Compatible BGA

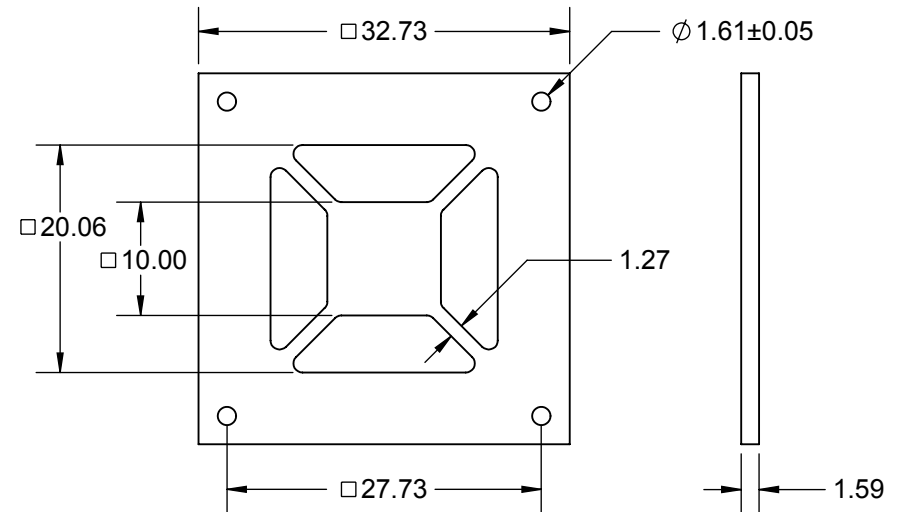
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 <b>C16459 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 0.64	STATUS: Preliminary	SHEET: 3 OF 4	REV. -.01-working
		ENG: E. Smolentseva	SCALE: 2:1	
		FILE: C16459 Dwg	DATE: 4/3/17	




ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid, 25x25mm IC size	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	Backing Plate 25x25mm	7075-T6 Aluminum Alloy
5	Elastomer Guide 25mm IC	Kapton Polyimide/Cirlex/Ultem
6	Insulation Plate 25x25mm IC	FR4
7	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
8	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
9	Compression Screw, M18	7075-T6 Aluminum Alloy
10	Test Chip	Material <not specified>
11	Ball Guide	Kapton Polyimide/Cirlex
12	Test PCB	Material <not specified>
13	23mm square 0.75mm thick 0.1mm pitch 63 deg angled elastomer	Shin-etsu Elastomer
14	#0-80 x 0.5, SH Cap Screw	Alloy Steel
15	IC frame	Ultem 1000



### 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.

 <b>C16459 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 0.64	STATUS: Preliminary	SHEET: 4 OF 4	REV. -.01-working
		ENG: E. Smolentseva	SCALE: 1.75:1	
		FILE: C16459 Dwg	DATE: 4/3/17	