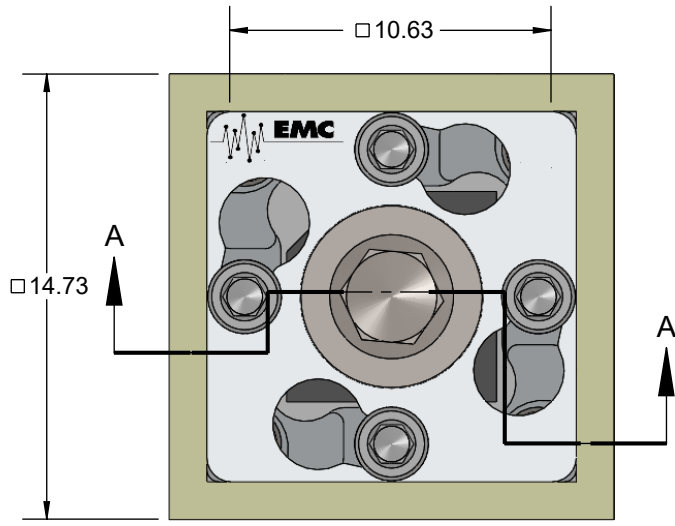


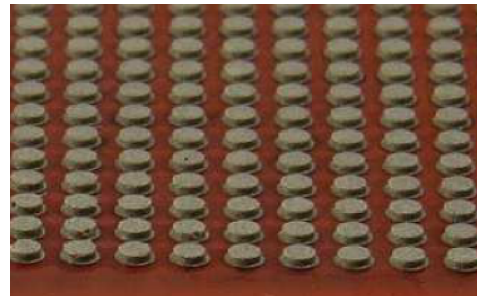
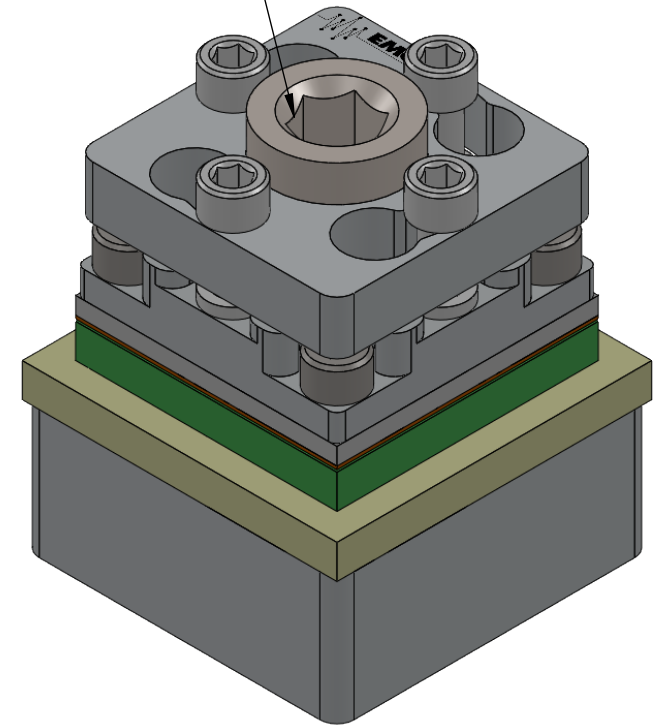
# GHz BGA Socket - Direct mount, solderless

## Features

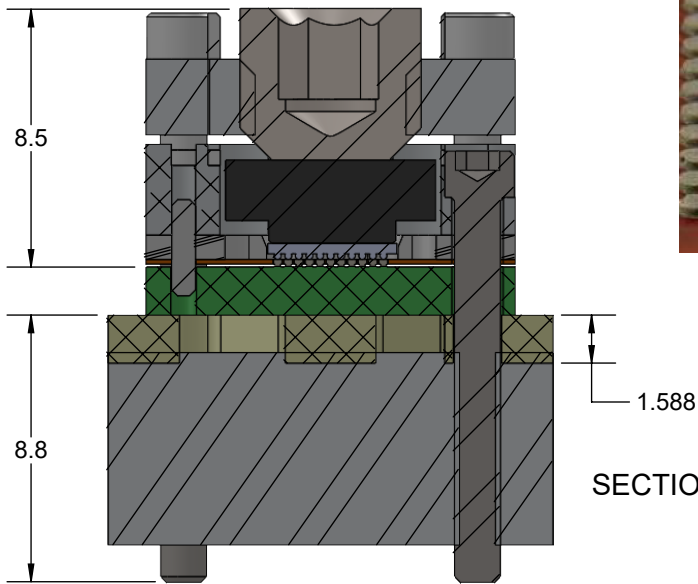
- Directly mounts to target PCB (needs tooling holes) with hardware
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable swivel socket lid



**RECOMMENDED TORQUE: 6-12 N-cm [0.5-1.0 IN-LB]**  
 Remove torque when device is not under test



GT CONTACTOR




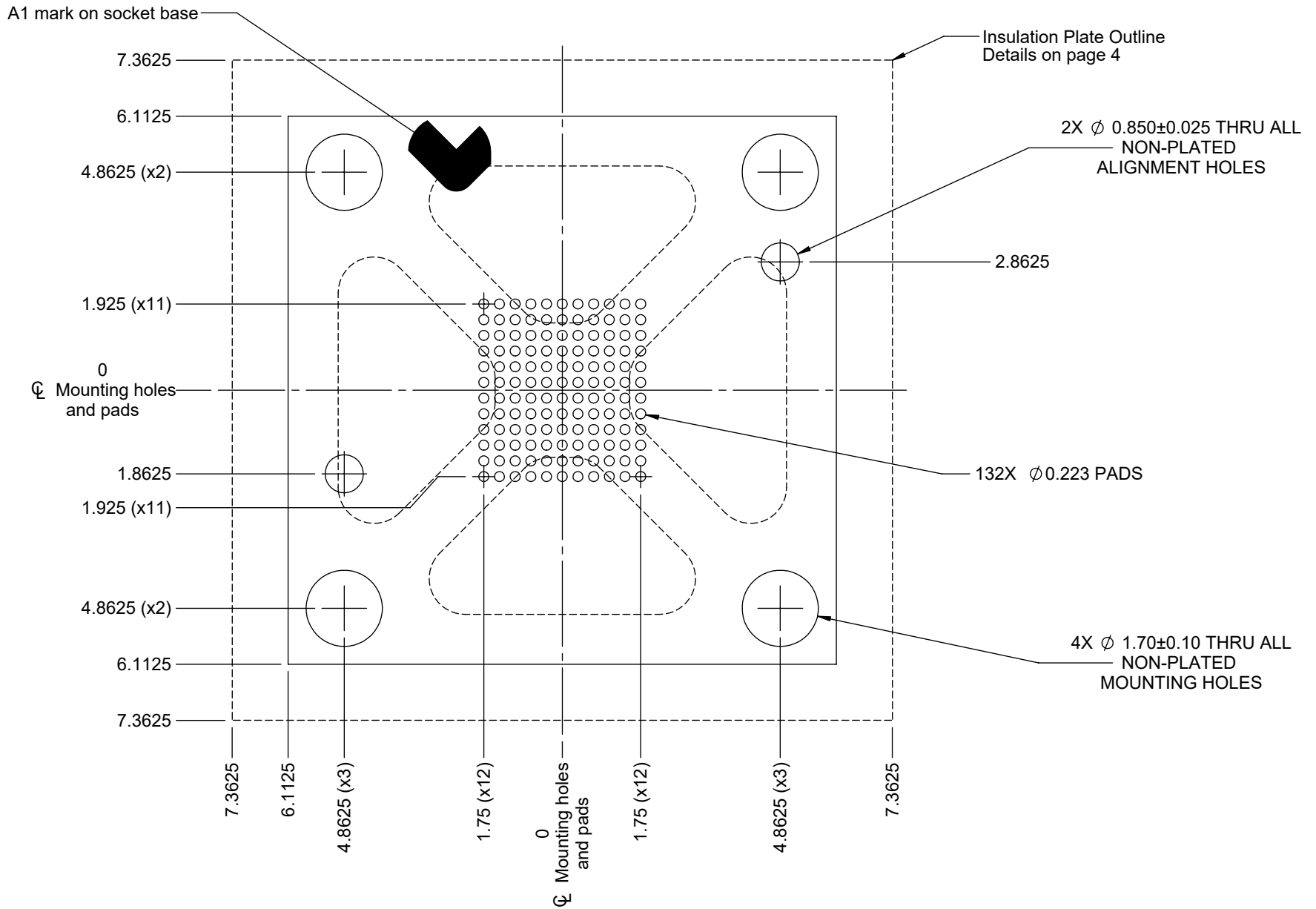
SECTION A-A

## Description: GT-BGA 0.35mm 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.

 <b>GT-BGA-2021 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.00	STATUS: Released ENG: B. Schatz FILE: GT-BGA-2021 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 09/18/2015	REV. A SCALE: 4:1	



## Description: Recommended PCB Layout

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


**Tolerances:** Hole diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001"$ ], Hole and pad locations  $\pm 0.025\text{mm}$  [ $\pm 0.001"$ ], 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.

## Target PCB Recommendations:

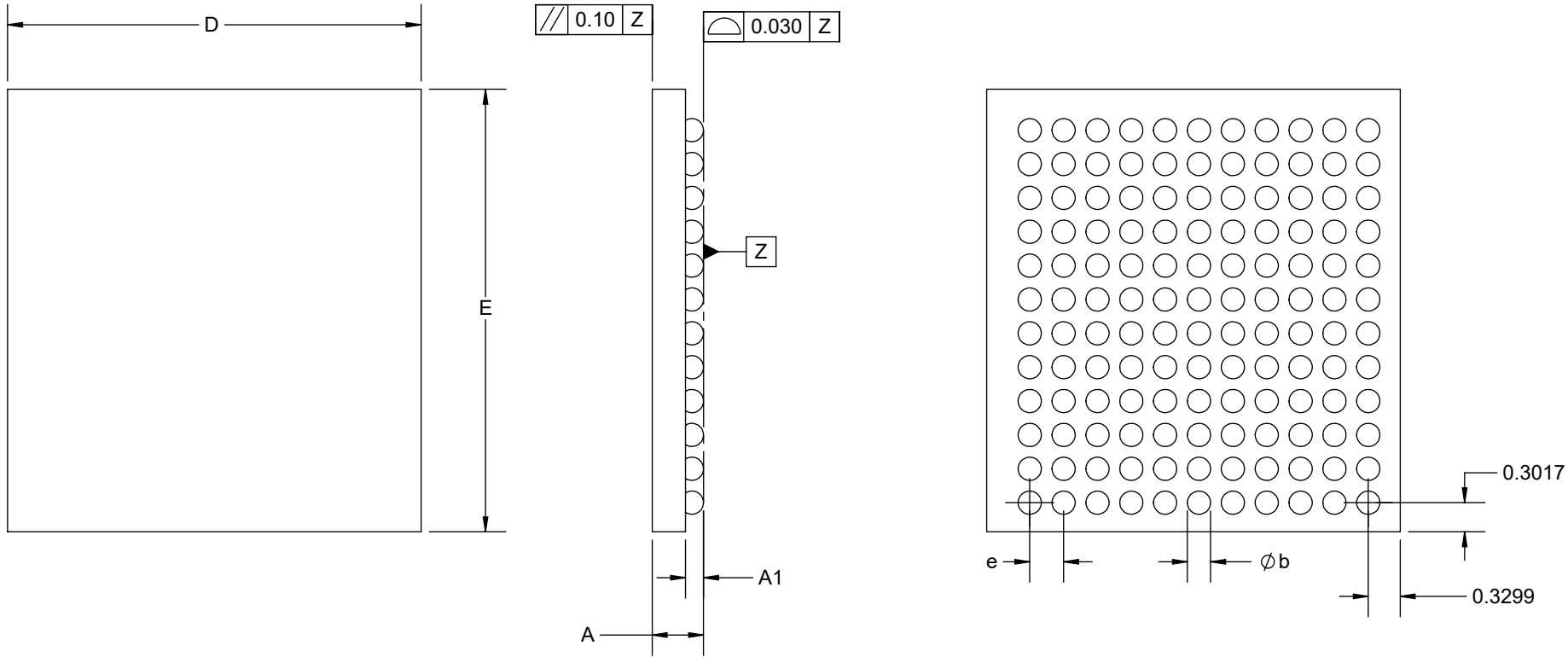
Total thickness: 1.6mm min.

Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

 <b>GT-BGA-2021 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.00	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 8:1
		FILE: GT-BGA-2021 Dwg	DATE: 09/18/2015	

# Ironwood Package Code : BGA132F



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  $Z$ .
3. Datum  $Z$  (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.

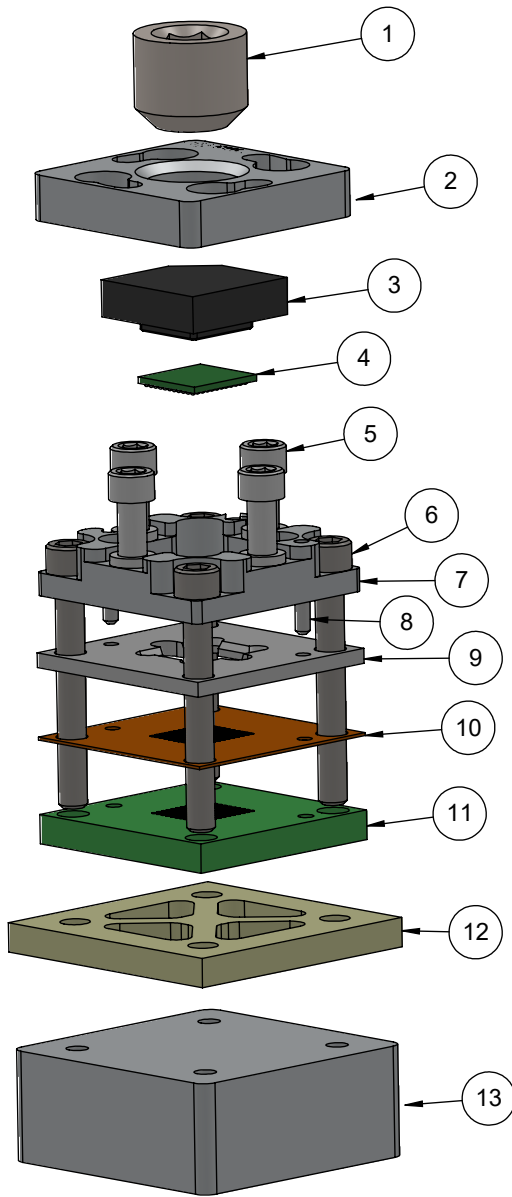
DIM	MIN	MAX
A	0.5	0.56
A1	0.17	0.2
b	0.21	0.27
D	4.25	4.30
E	4.55	4.60
e	0.35	

## Description: Compatible Device

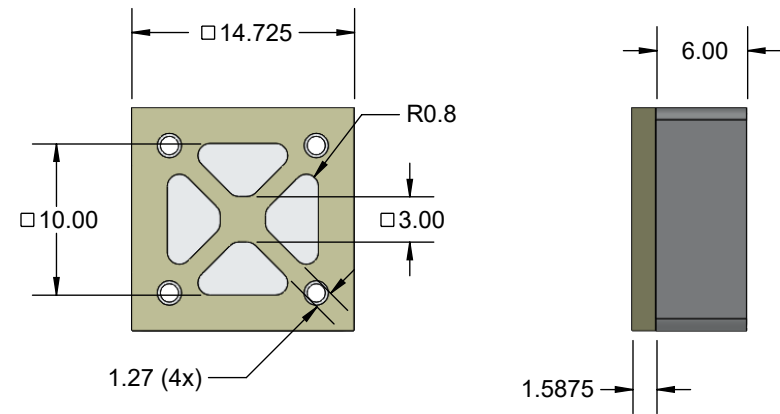
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 <b>GT-BGA-2021 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.00	STATUS: Released	SHEET: 3 OF 4	REV. A
		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 15:1
		FILE: GT-BGA-2021 Dwg	DATE: 09/18/2015	



ITEM NO.	DESCRIPTION	Material
1	Compression Screw	Steel
2	Socket Lid	Aluminum
3	Compression Plate	Aluminum
4	Compatible BGA	N/A
5	Shoulder Screw	Steel
6	Mounting Screw	Steel
7	Socket Base	Aluminum
8	Alignment Pin	Steel
9	IC Guide	PEEK
10	GT Elastomer	Conductive Elastomer
11	Target PCB	N/A
12	Insulation Plate	FR4 Standard
13	Backing Plate	Aluminum




## Description: Socket, 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.

## INSULATION AND BACKING PLATE DETAIL

 <b>GT-BGA-2021 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.00	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 5:2
		FILE: GT-BGA-2021 Dwg	DATE: 09/18/2015	