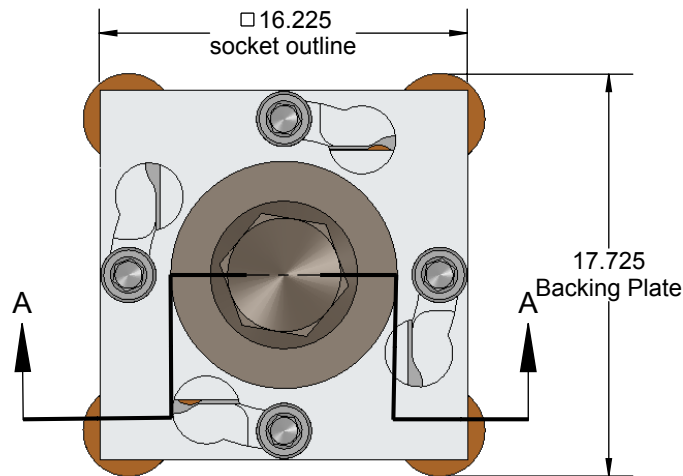


# Silver Button (GT) BGA Socket - Direct mount, solderless

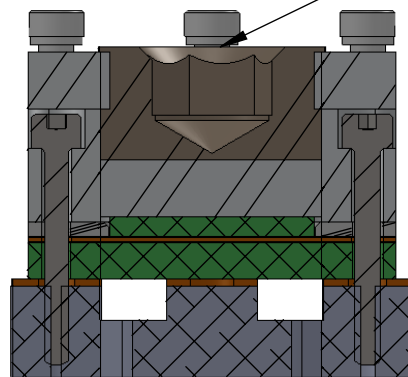
## Features

- 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

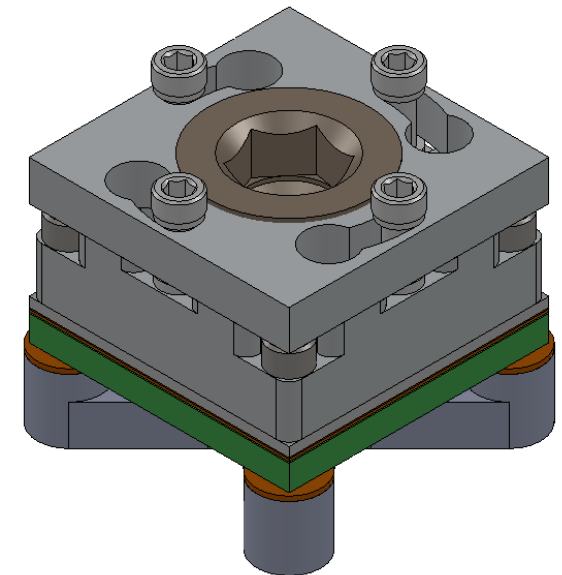
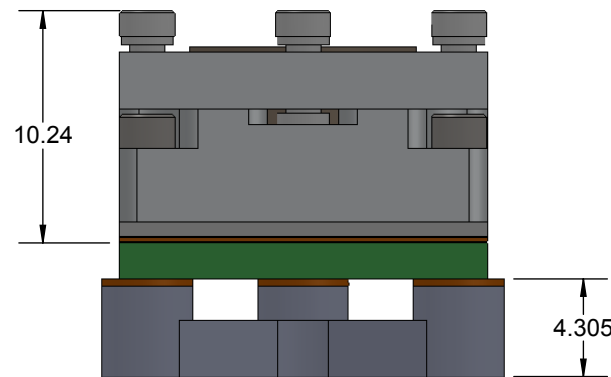


TOP VIEW

**Recommended torque 3 in lb.**




SECTION A-A

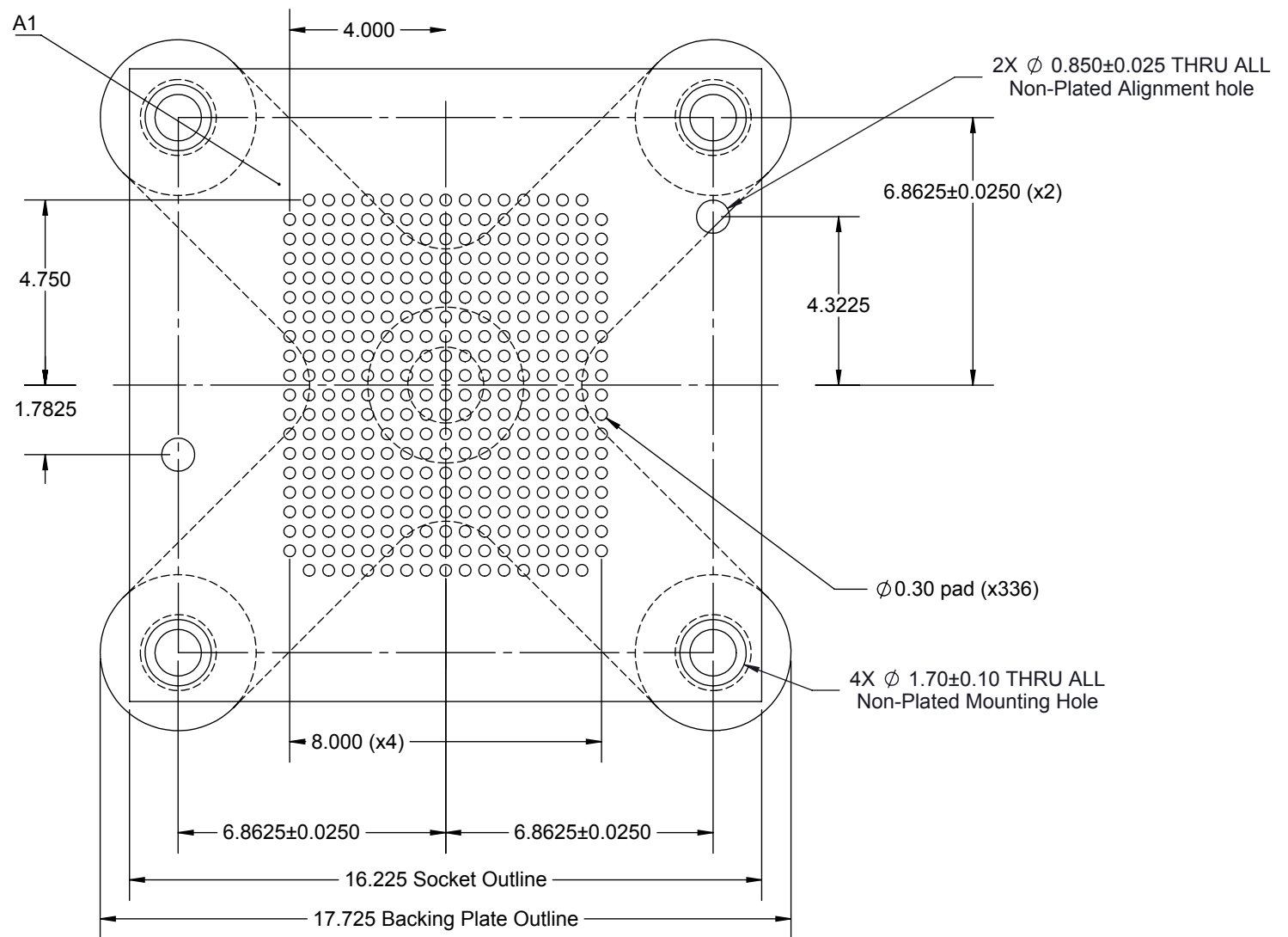


## Description: GT-BGA for 9x10.5mm BGA336 0.5mm pitch

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.

<b>GT-BGA-2018 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: - Finish: - Weight: 7.75	STATUS: Released	SHEET: 1 OF 4	REV. A
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: GT-BGA-2018 Dwg	DATE: 04/24/2015	



### Target PCB Recommendations

Total thickness: 1.6mm min.


Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

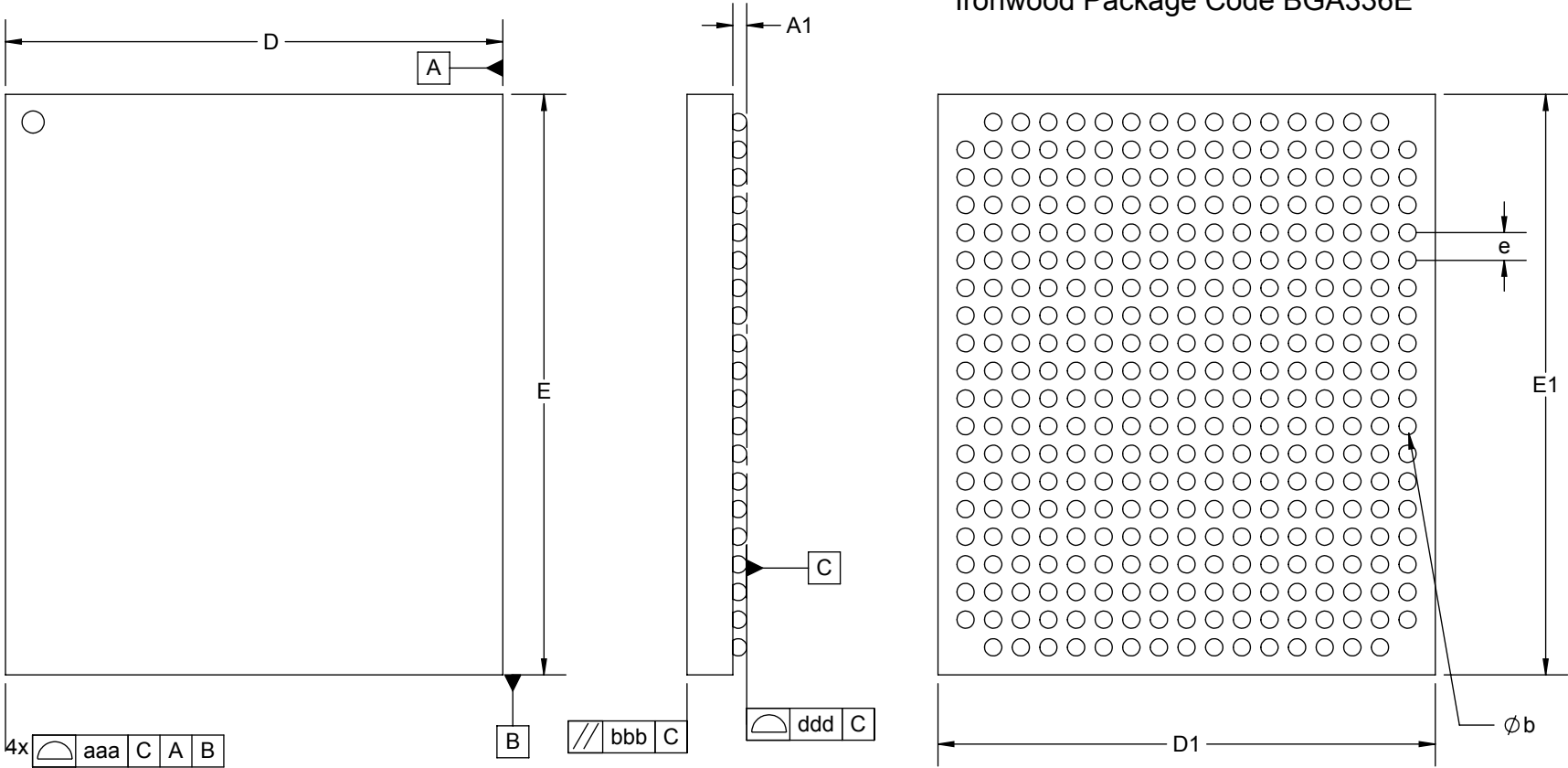
### Description: Recommended PCB Layout

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.

<b>GT-BGA-2018 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: - Finish: - Weight: 7.75	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 6:1
		FILE: GT-BGA-2018 Dwg	DATE: 04/24/2015	

Ironwood Package Code BGA336E




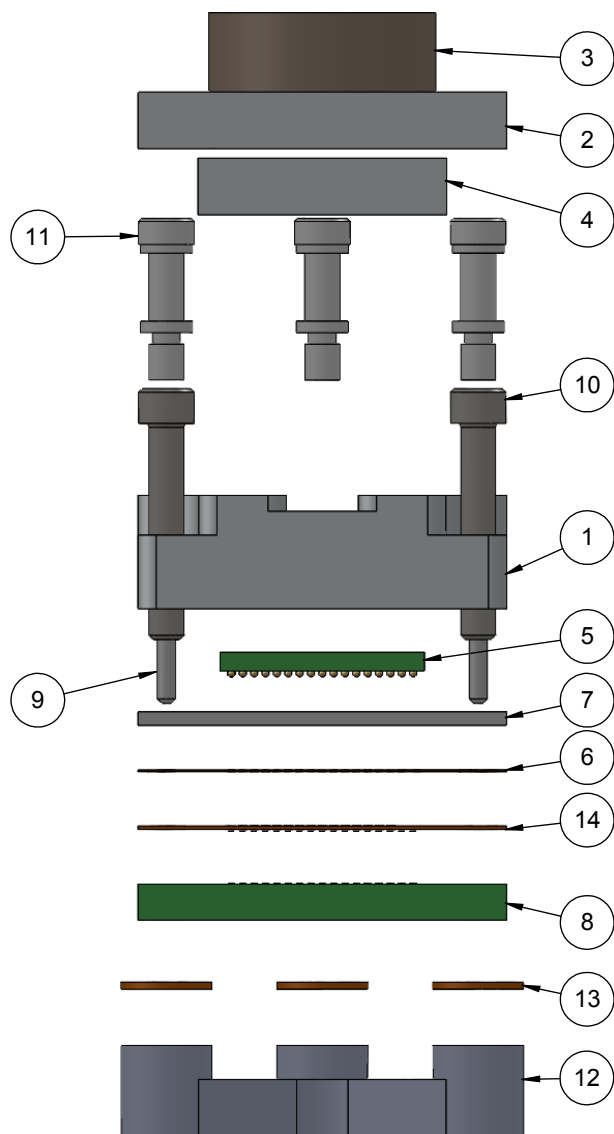
DIM	MIN	MAX
A	-	1.40
A1	0.21	0.29
b	0.20	0.30
D	9.00	
D1	8.00	
E	10.50	
E1	9.50	
e	0.50	
aaa	0.05	
bbb	0.10	
ddd	0.08	

Description: Compatible Device

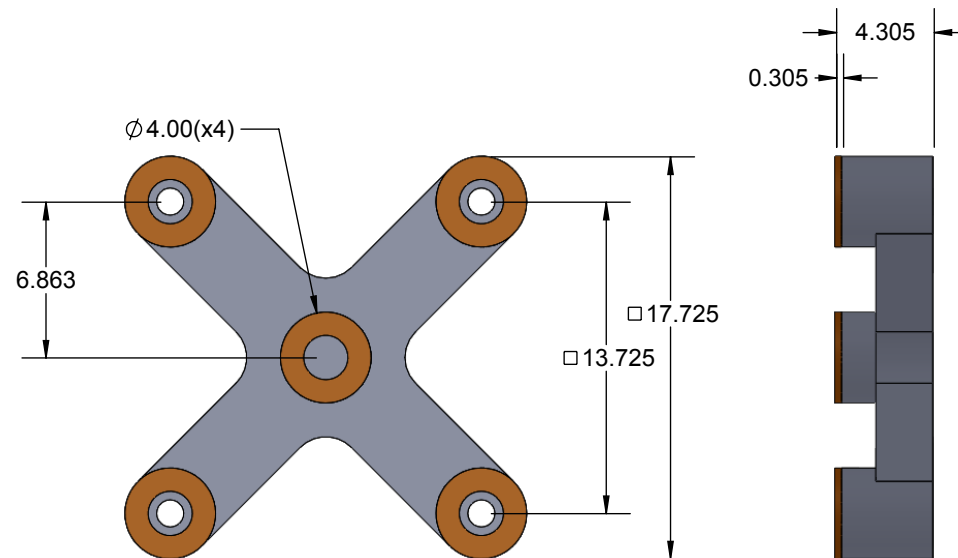
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.  
Tolerances: Hole diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.025\text{mm}$  [ $\pm 0.001"$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances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

17 x 20 array

 <b>GT-BGA-2018 Drawing</b>	Material: - Finish: - Weight: 7.75	STATUS: Released	SHEET: 3 OF 4	REV. A
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 8:1
		FILE: GT-BGA-2018 Dwg	DATE: 04/24/2015	




ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid Swivel 11mm IC	7075-T6 Aluminum Alloy
3	Compression Screw M10	7075-T6 Alumium Alloy
4	Compression Plate 11x11mm IC 2.5mm thick	7075-T6 Aluminum Alloy
5	TChip for 9.0x10.5mm, 0.5mm 17x20	FR4 High temp
6	Ball Guide for 9.0x10.5mm, 0.5mm 17x20	Kapton Polyimide/Cirlex
7	IC Guide for 9.0x10.5mm, 0.5mm 17x20	TECAPEEK CMF Ceramic filled
8	TPCB for 9.0x10.5mm, 0.5mm 17x20	FR4 High temp
9	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
10	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
11	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
12	"X" shaped Backing Plate for 11mm chip	7075-T6 (SN)
13	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
14	GT BGA elastomer assembly for 9.0x10.5mm 0.5mm pitch BGA336 17x20 array	Conductive Elastomer



## 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.

<b>GT-BGA-2018 Drawing</b>		STATUS: Released	SHEET: 4 OF 4	REV. A
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: -	ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 3:1
	Finish: -	FILE: GT-BGA-2018 Dwg	DATE: 04/24/2015	
	Weight: 7.75			