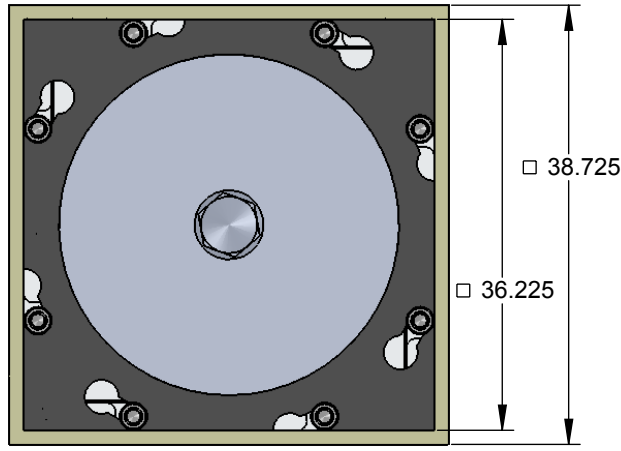


GHz BGA DIRECT MOUNT, SOLDERLESS SOCKET.

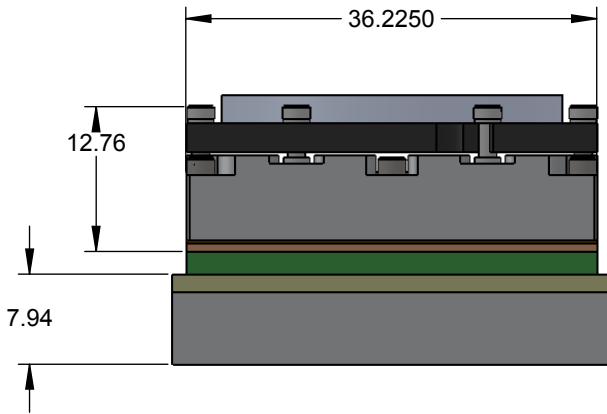
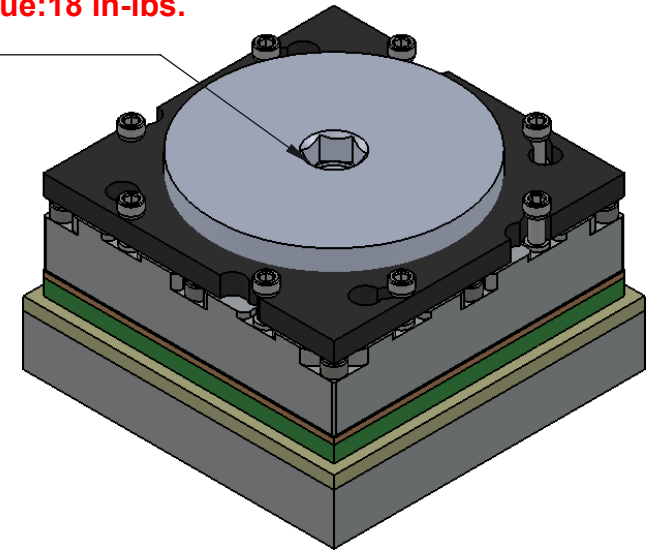
Features

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

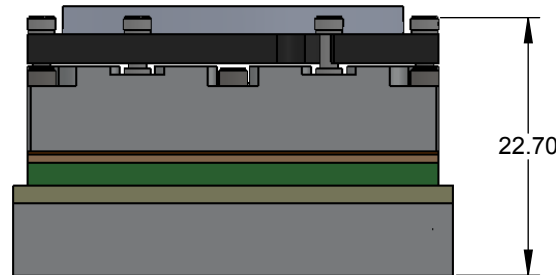
Recommended torque: 18 in-lbs.



TOP VIEW



FRONT VIEW




SIDE VIEW

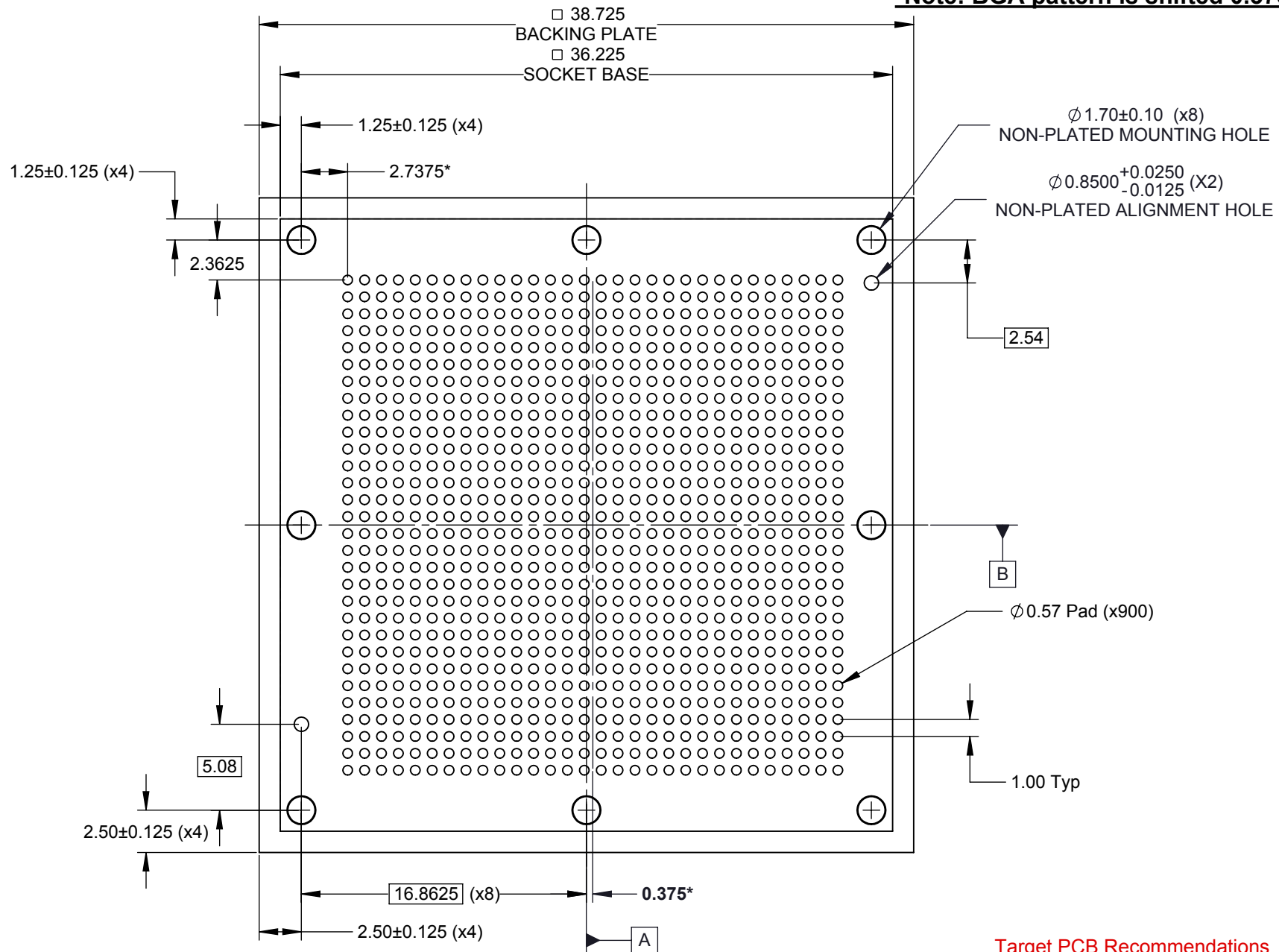
Description: GHz BGA socket for 900pin, 1.0mm pitch, 30x30 array, 31mmx31mm BGA package.

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.

 SG-BGA-6412 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 67.13	STATUS: Released ENG: J. Vavra FILE: SG-BGA-6412 Dwg	SHEET: 1 OF 4 DRAWN BY: J. Vavra DATE: 10/7/2014	REV. A SCALE: 3:2


***Note: BGA pattern is shifted 0.375 right of center.**

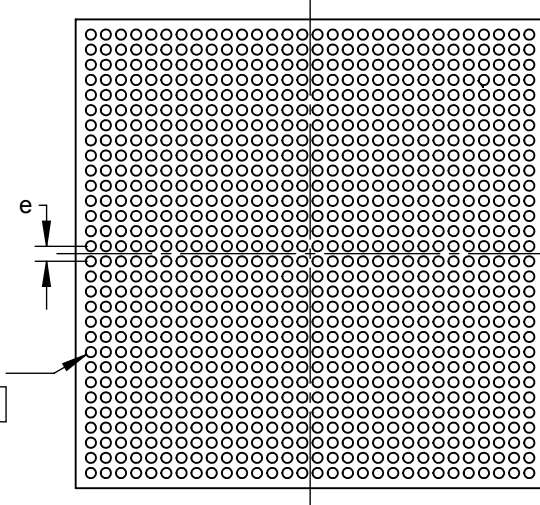
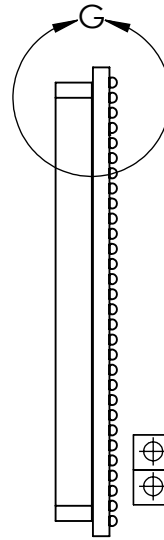
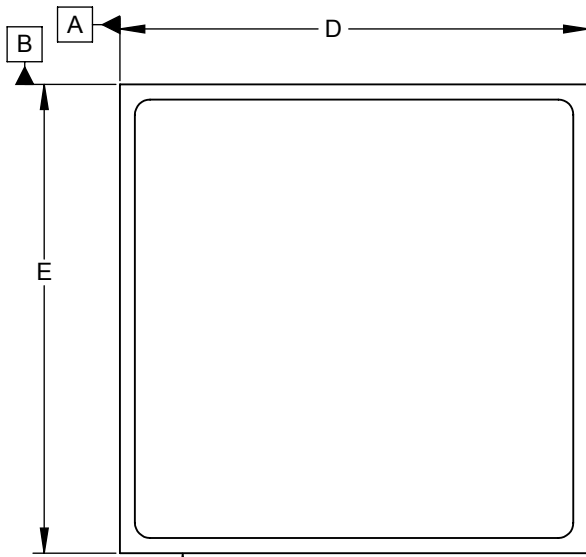


Description: Recommended PCB layout

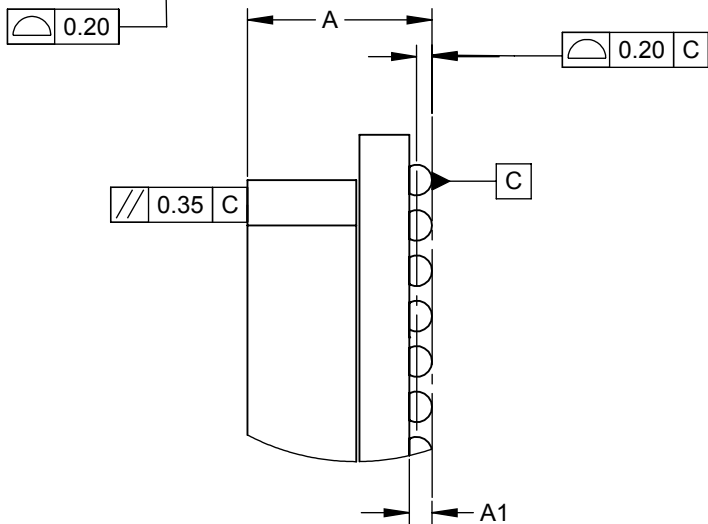
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$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

Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

 SG-BGA-6412 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 67.13	STATUS: Released ENG: J. Vavra FILE: SG-BGA-6412 Dwg	SHEET: 2 OF 4 DRAWN BY: J. Vavra DATE: 10/7/2014	REV. A SCALE: 3:1



⊕	∅ 0.30	C	A	B
⊕	∅ 0.10			



DETAIL G
SCALE 6 : 1


Array 30x30

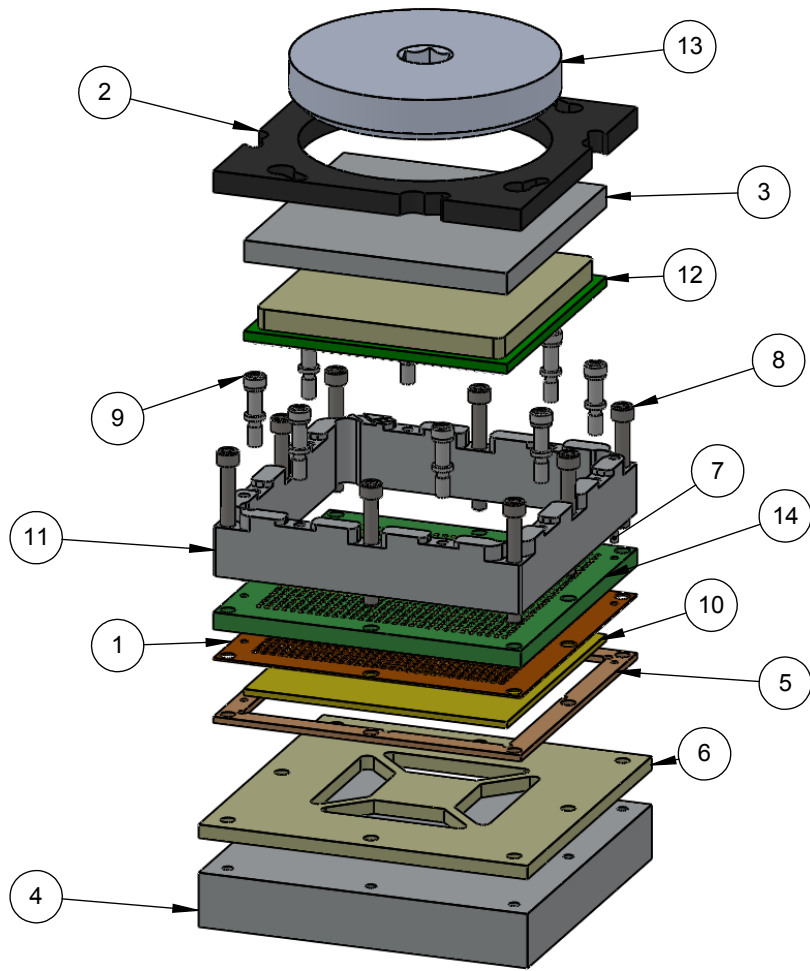
DIM	MIN	MAX
A	3.8	4.2
A1	0.4	0.6
b		0.65
D	31.00 BSC	
E	31.00 BSC	
e	1.0 BSC	

Description: BGA

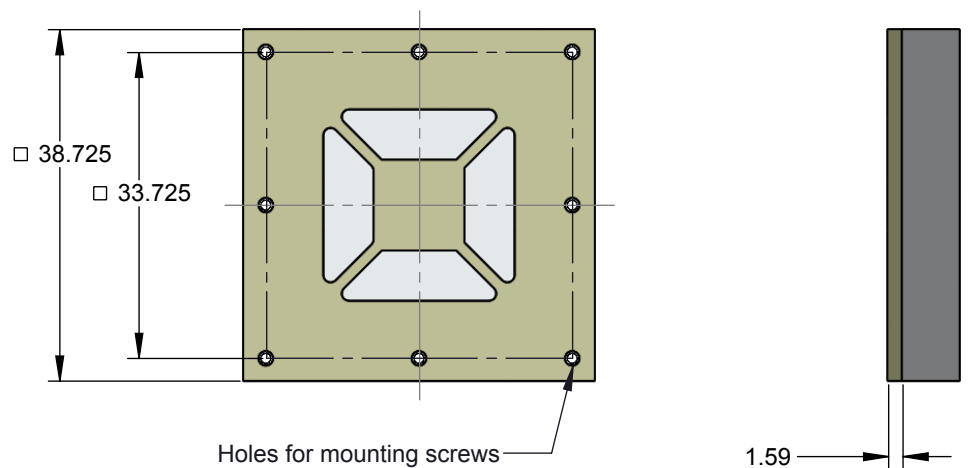
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 <p>SG-BGA-6412 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 67.13</p>	<p>STATUS: Released ENG: J. Vavra FILE: SG-BGA-6412 Dwg</p>	<p>SHEET: 3 OF 4 DRAWN BY: J. Vavra DATE: 10/7/2014</p>	<p>REV. A SCALE: 2:1</p>
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ITEM NO.	DESCRIPTION	Material
1	Ball Guide	Kapton Polyimide/Cirlex
2	Swivel Socket Lid 31mm IC	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	Backing Plate	7075-T6 Aluminum Alloy
5	Elastomer Guide 31mm IC	Ultem 1000
6	Insulation Plate	High Temp FR4
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	Elastomer 0.75mm thick 40 Micron gold plated filaments arranged symmetrically in a silicone rubber(63.5 degree angle)	20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle)
11	Socket Base	7075-T6 Aluminum Alloy
12	Customer's BGA IC	FR4 Standard
13	Compression Screw, M30	7075-T6 Aluminum Alloy
14	PCB BGA900 30x30 array 1mm	FR4 High temp



Description: Skt, Insulation Plate, Pin Det

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.

 SG-BGA-6412 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A	STATUS: Released	SHEET: 4 OF 4	REV. A
	Finish: N/A	ENG: J. Vavra	DRAWN BY: J. Vavra	SCALE: 1.2:1
	Weight: 67.13	FILE: SG-BGA-6412 Dwg	DATE: 10/7/2014	