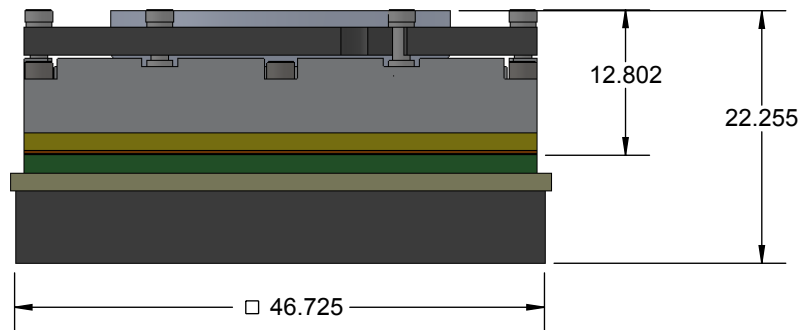
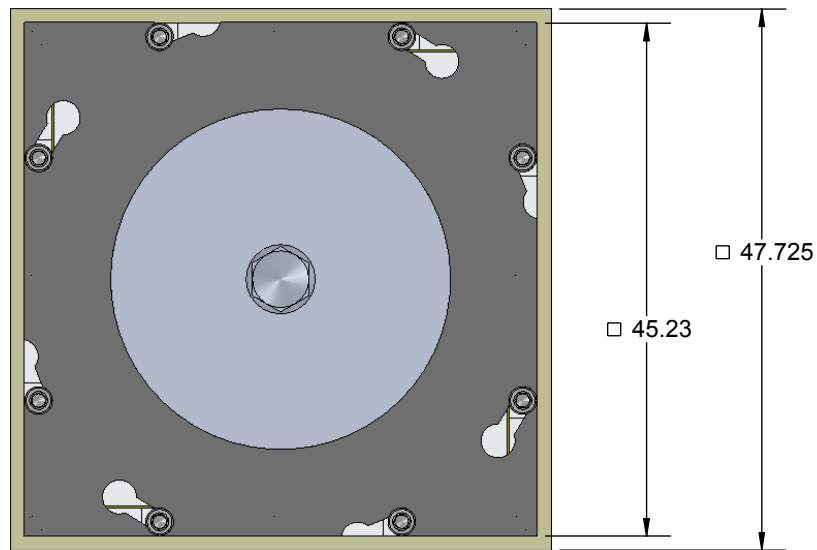


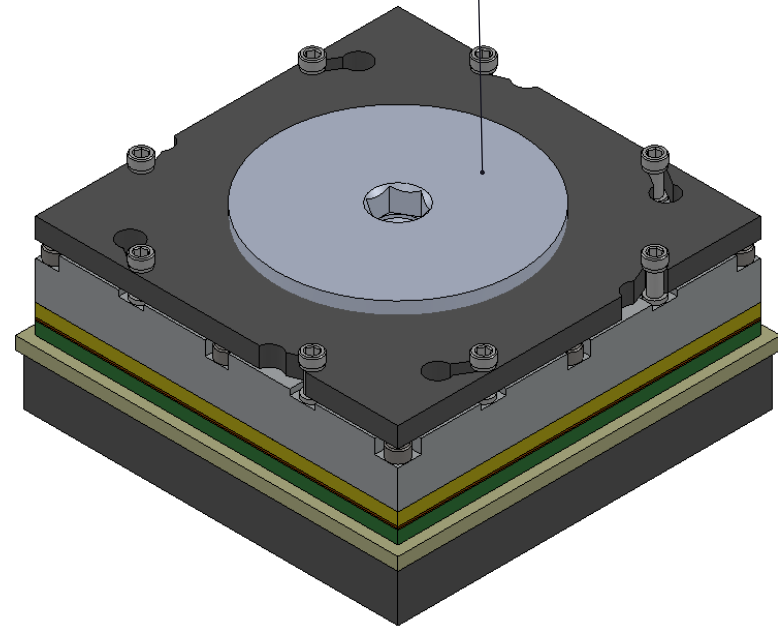
GHz BGA Socket - Direct mount, solderless

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



Recommended torque = 50-60 in-lbs



Description: GT-BGA 37.5x37.5mm IC 37x37 array 1mm 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.

GT-BGA-2003 Drawing



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

Material: N/A
Finish: N/A
Weight: 93.84

STATUS: Released

ENG: S. Huang

FILE: GT-BGA-2003

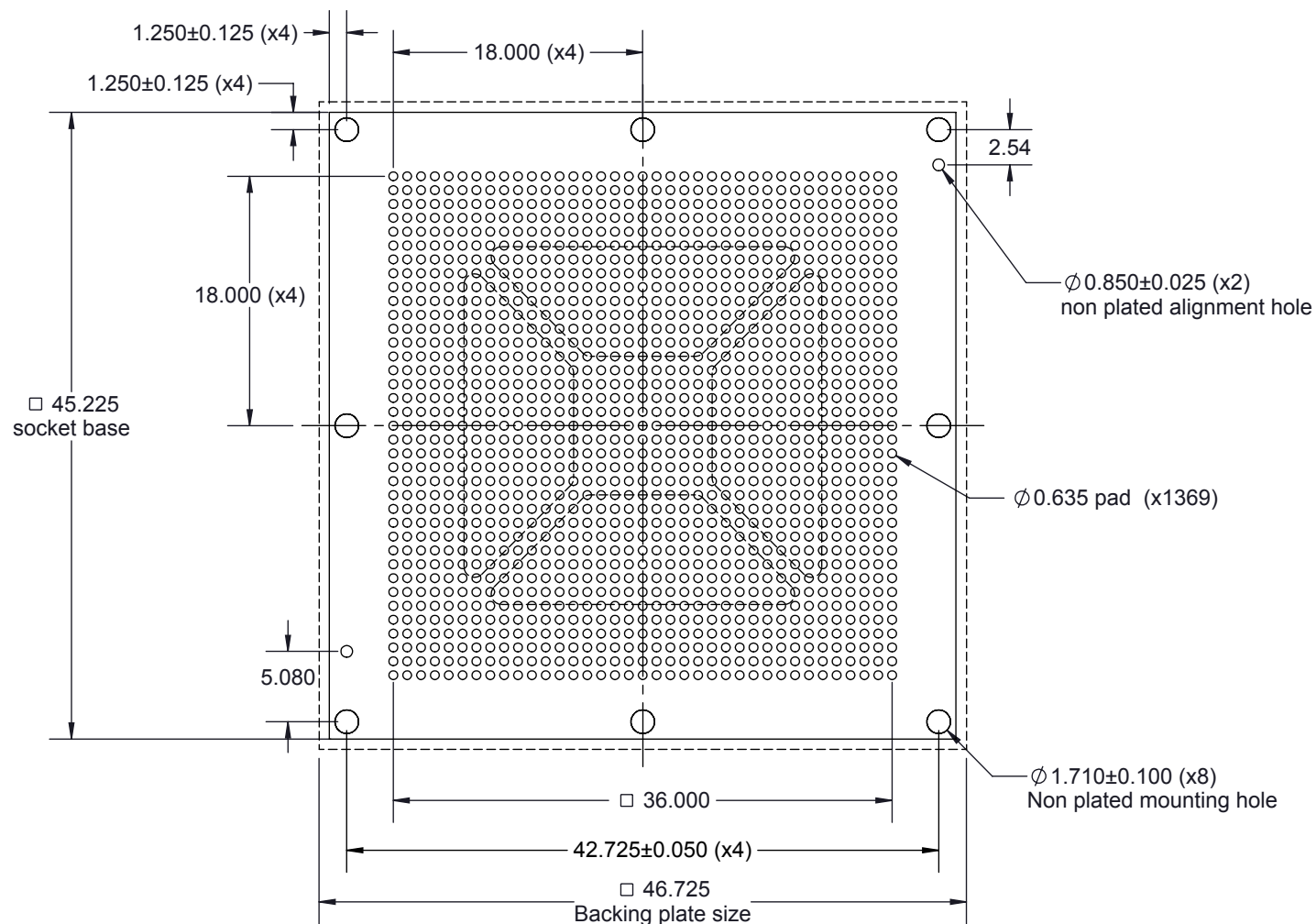
SHEET: 1 OF 4

DRAWN BY: S. Huang

DATE: 11/5/14

REV. A

SCALE: 3:2



Target PCB Recommendations

Total Thickness: 1.6mm min.

Plating: Gold or Solder finish.


PCB Pad Height: Same or higher than solder mask.

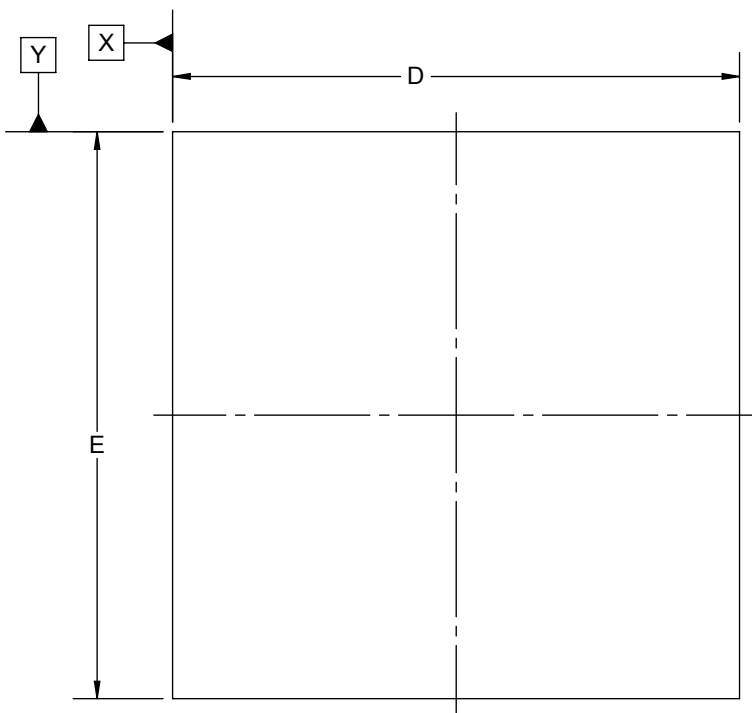
NOTE: Steel backing plate may be required based on end user's application.

Description: Recommended PCB Layout

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

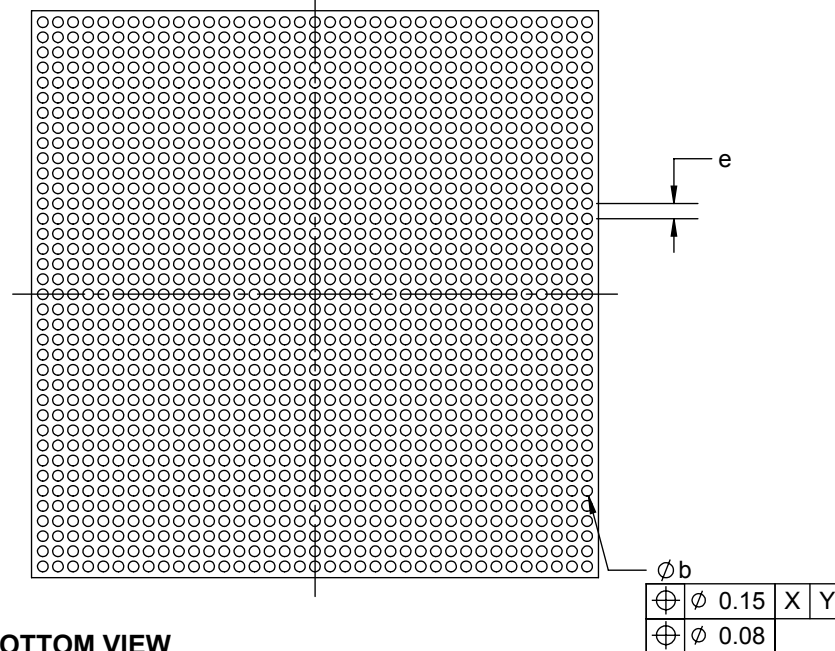
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

 GT-BGA-2003 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 93.84	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
		FILE: GT-BGA-2003	DATE: 11/5/14	

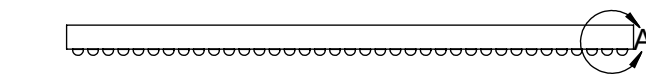


TOP VIEW

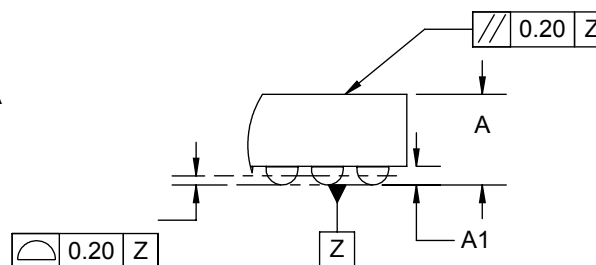
Ironwood package code: BGA1369C



BOTTOM VIEW



SIDE VIEW



DETAIL A
SCALE 6 : 1

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.

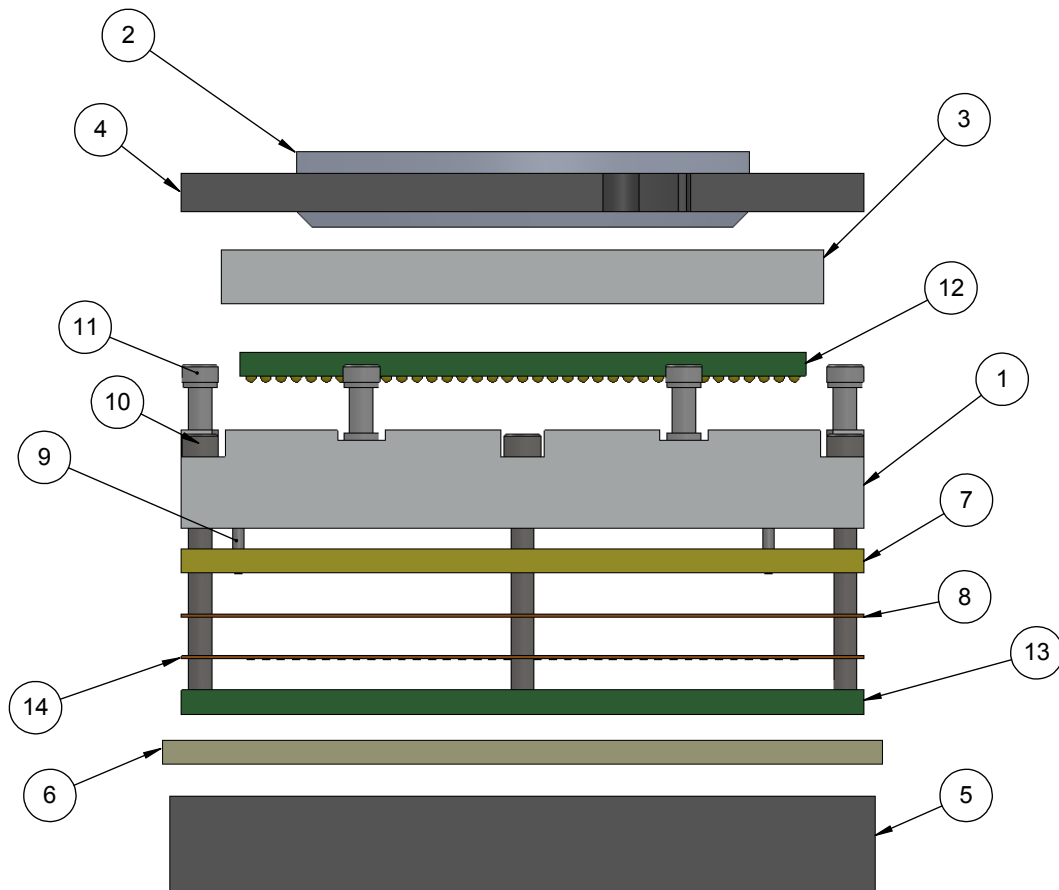
Description: Compatible Device

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

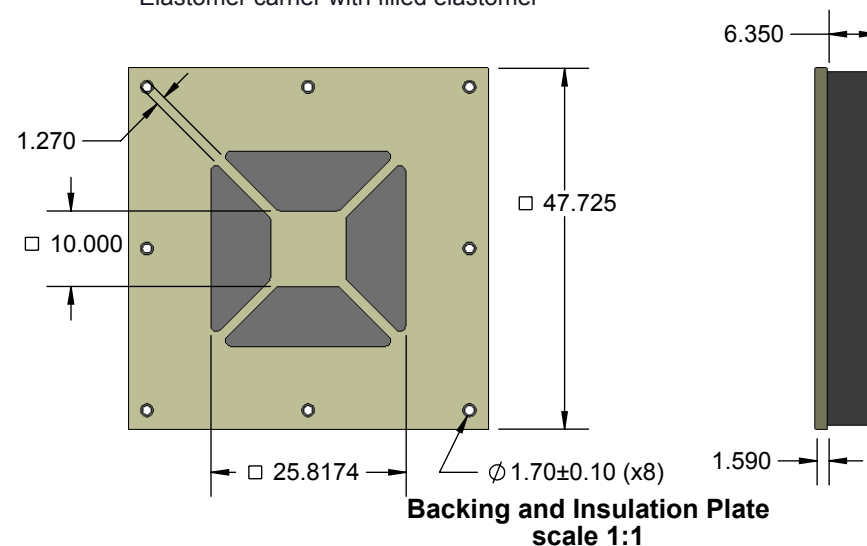
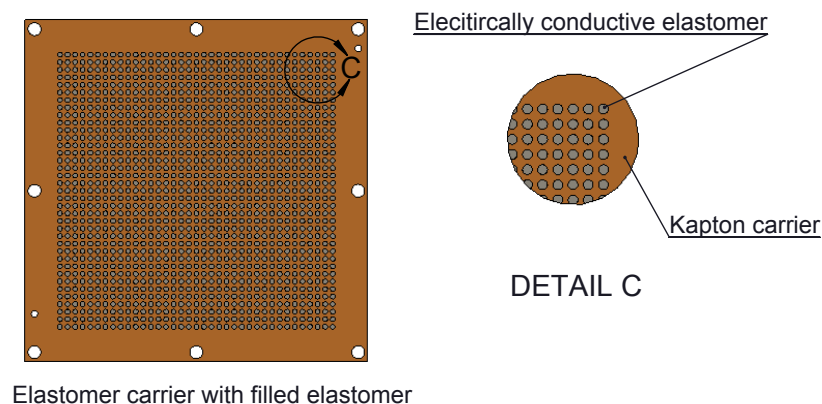
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

DIM	MIN	MAX
A	---	3.01
A1	0.40	0.60
b	---	0.70
D	37.50 BSC	
E	37.50 BSC	
e	1.00 BSC	

	GT-BGA-2003 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 93.84	STATUS: Released ENG: S. Huang FILE: GT-BGA-2003	SHEET: 3 OF 4 DRAWN BY: S. Huang DATE: 11/5/14	REV. A SCALE: 2:1



ITEM NO.	DESCRIPTION	Material
1	Socket Base 40mm IC 6.5mm thick	7075-T6 Aluminum Alloy
2	Compression Screw, M30	7075-T6 Aluminum Alloy
3	Compression Plate 39.95 x 3.5mm	7075-T6 Aluminum Alloy
4	Swivel Socket Lid 40mm IC	7075-T6 Aluminum Alloy
5	GHz Backing Plate 40mm IC	7075-T6 Aluminum Alloy
6	Insulation Plate 40mm IC	FR4 Standard
7	IC Guide	Torlon 4203
8	Ball Guide	Kapton Polyimide/Cirlex
9	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
10	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
11	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
12	Test Chip	Material <not specified>
13	Test PCB	Material <not specified>
14	GT Elastomer 37.5mm IC 1mm pitch 37x37 array	Conductive Elastomer



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.

GT-BGA-2003 Drawing



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

Material: N/A
Finish: N/A
Weight: 93.84

STATUS: Released

ENG: S. Huang

FILE: GT-BGA-2003

SHEET: 4 OF 4

DRAWN BY: S. Huang

DATE: 11/5/14

REV. A

SCALE: 2:1