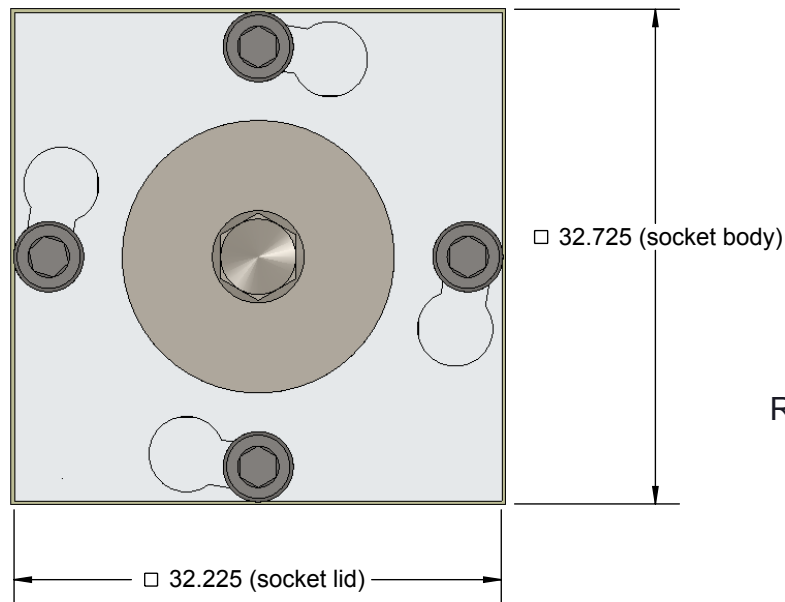


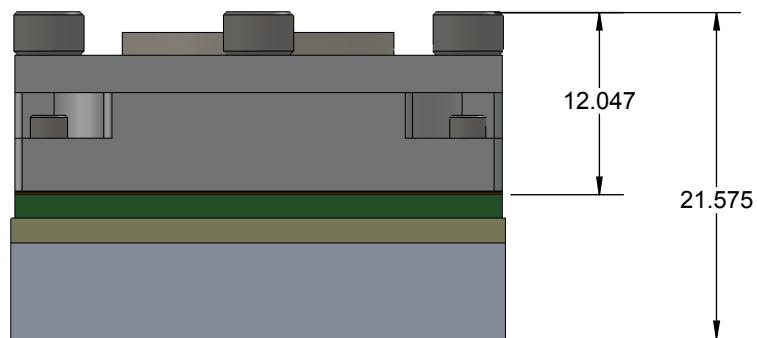
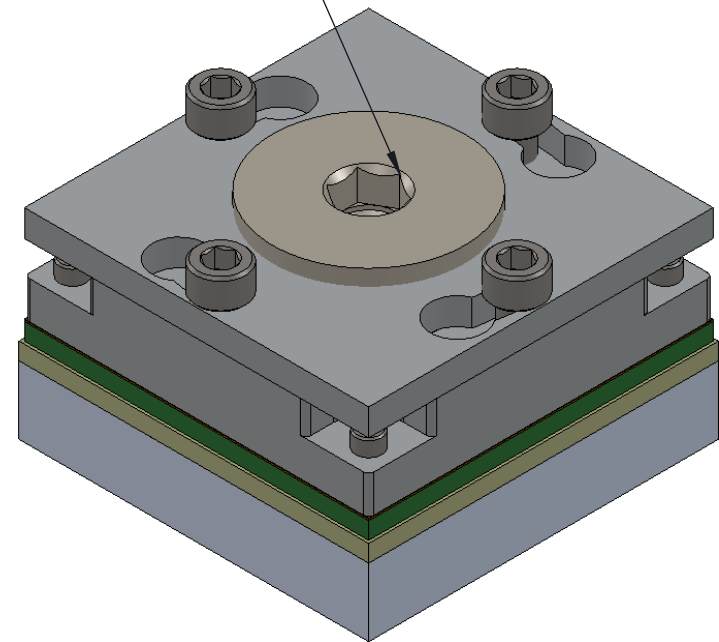
GHz BGA Socket - Direct mount, solderless

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 = 8-10 in-lbs

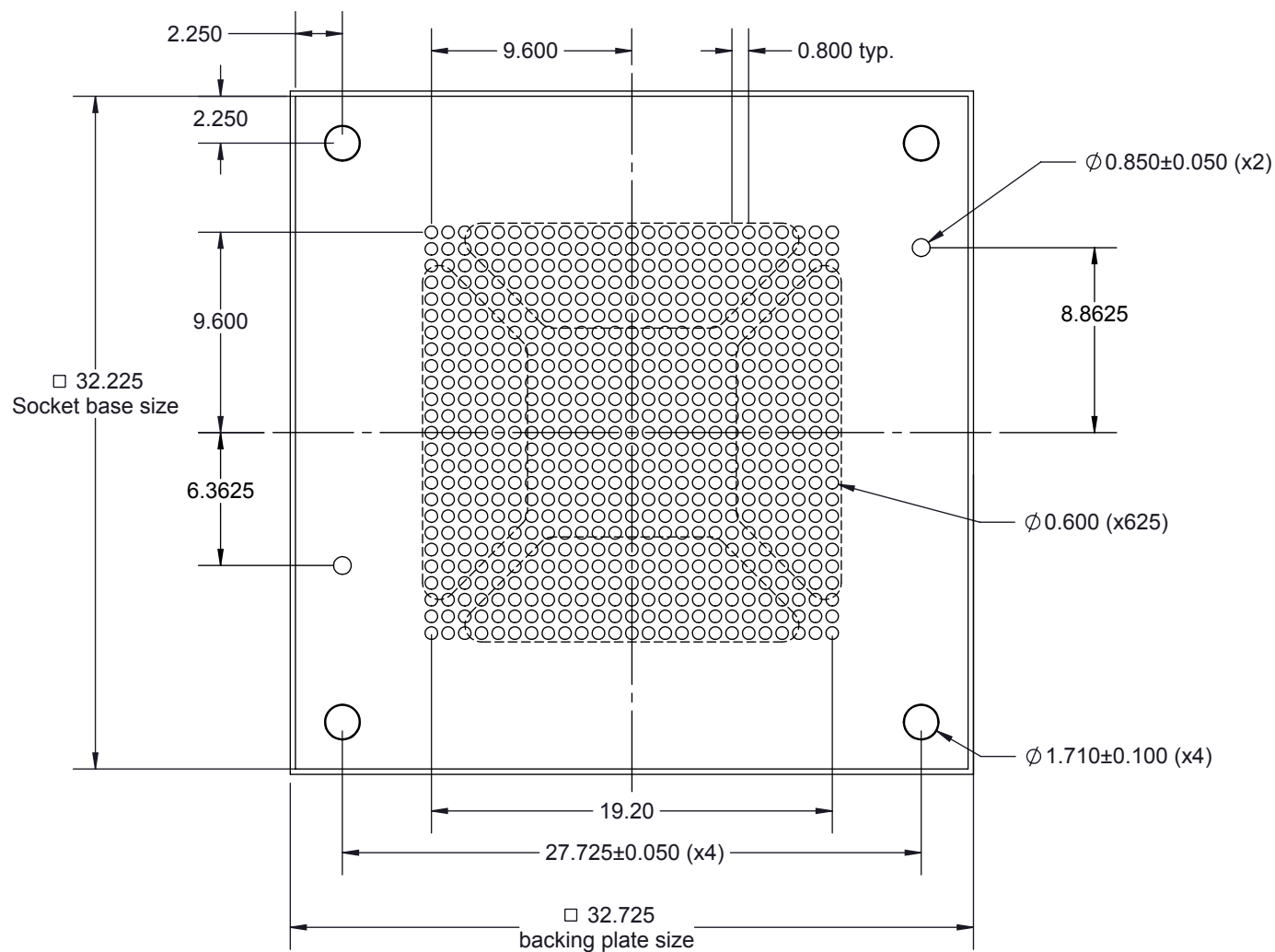


Description: GT-BGA 21x21mm 25x25 array 0.8mm pitch

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-2002 Drawing		STATUS: Released	SHEET: 1 OF 4	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
		FILE: GT-BGA-2002	DATE: 11/5/14	
		Material: N/A Finish: N/A Weight: 47.75		




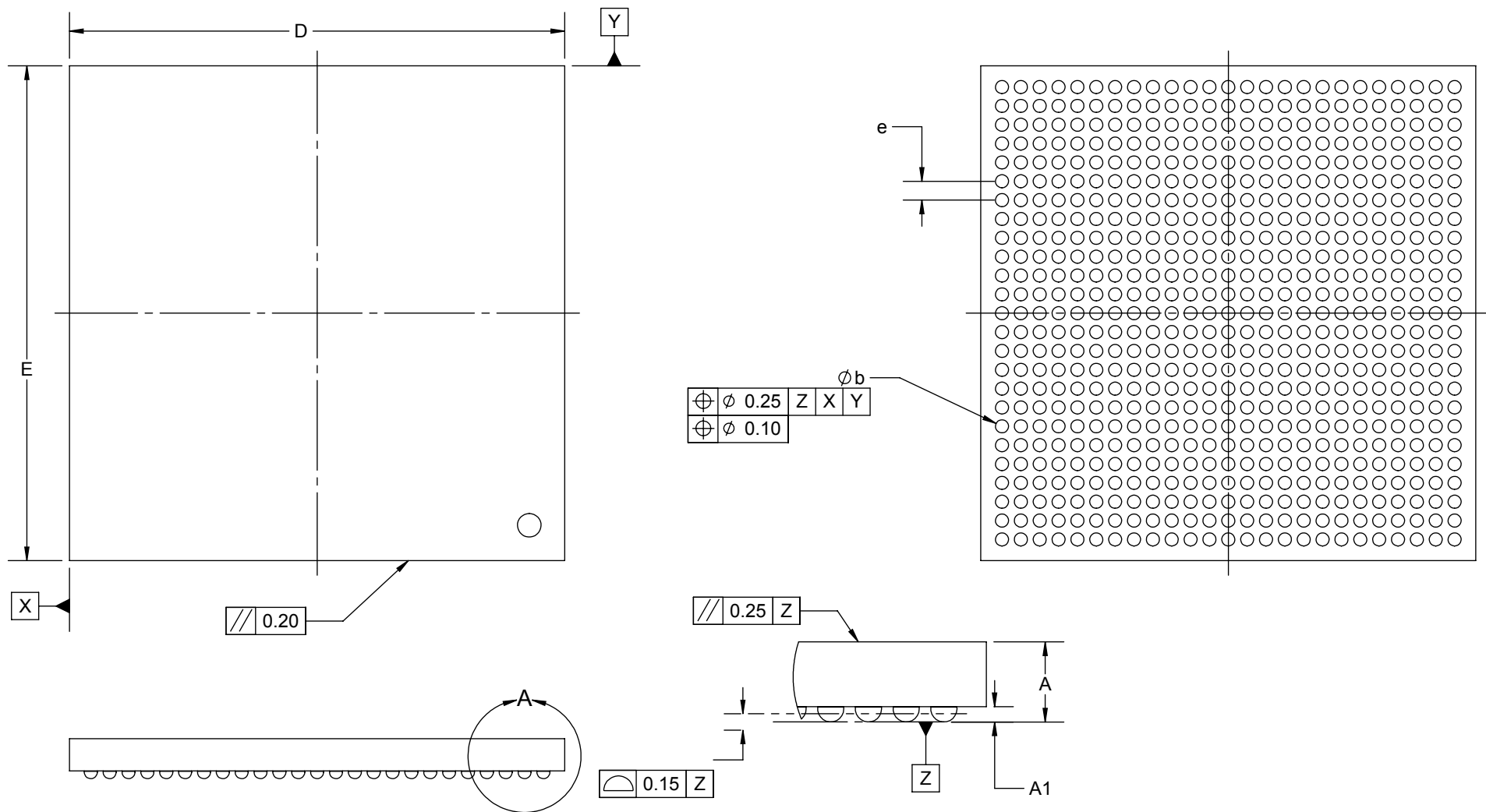
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

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.

 GT-BGA-2002 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 47.75	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 3:1
		FILE: GT-BGA-2002	DATE: 11/5/14	



DETAIL A
SCALE 8 : 1

Ironwood Packge Code : BGA625C

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	---	1.70
A1	0.27	0.45
b	---	0.55
D	21.00 BSC	
E	21.00 BSC	
e	0.80 BSC	

GT-BGA-2002 Drawing



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

Material: N/A
Finish: N/A
Weight: 47.75

STATUS: Released

ENG: S. Huang

FILE: GT-BGA-2002

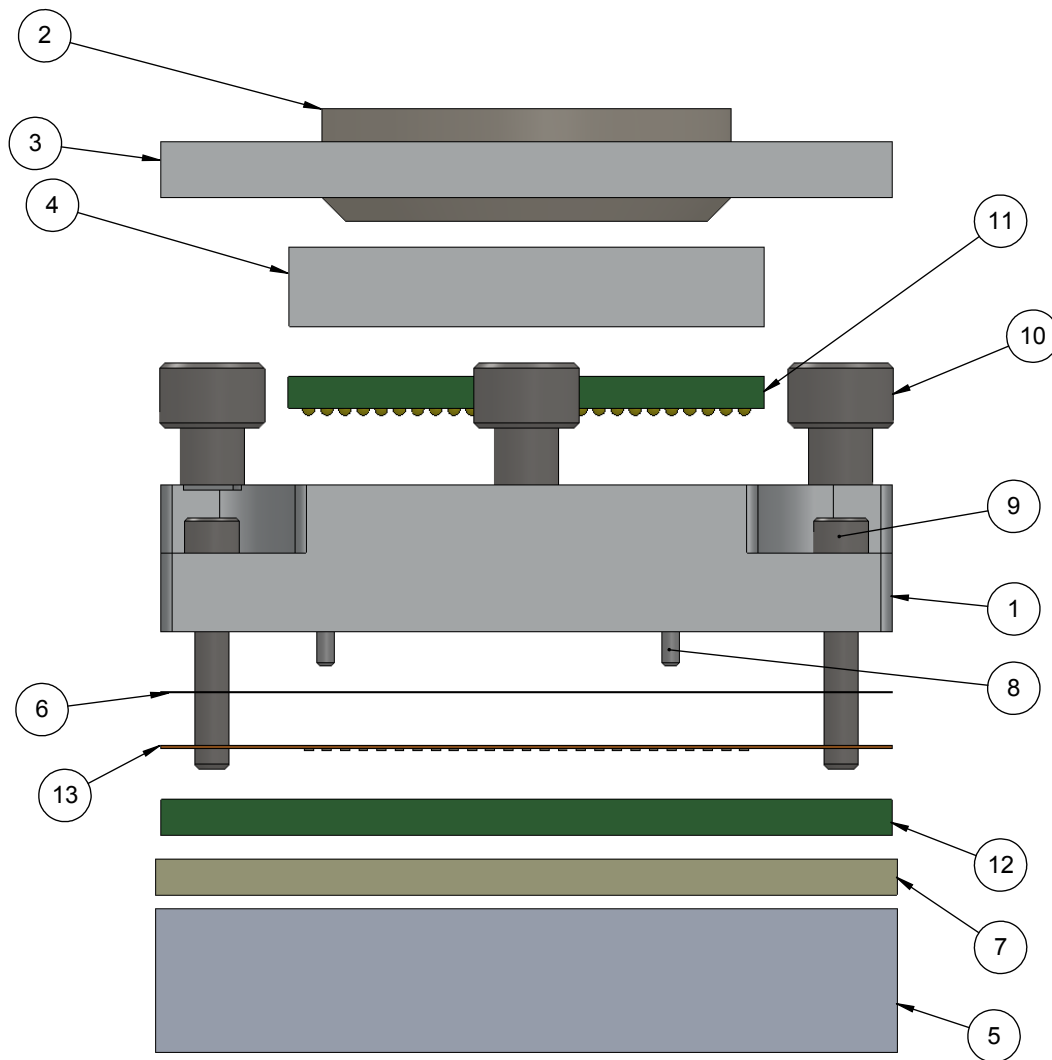
SHEET: 3 OF 4

DRAWN BY: S. Huang

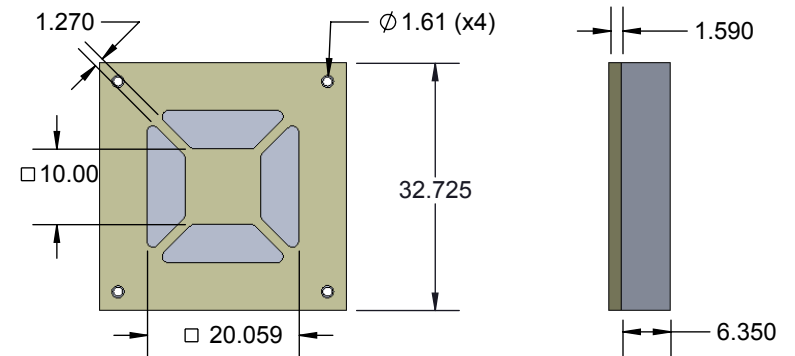
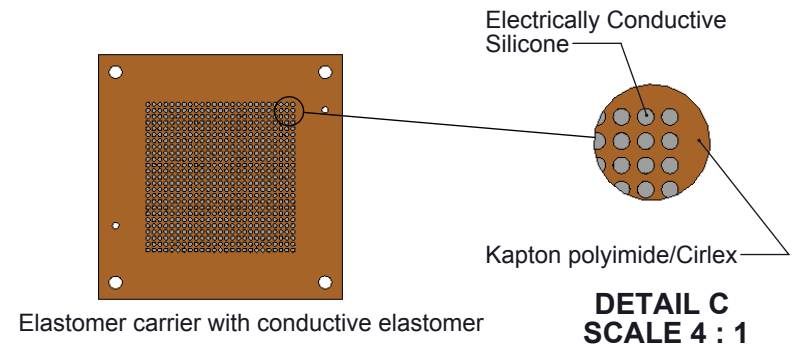
DATE: 11/5/14

REV. A

SCALE: 4:1




ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Compression Screw, M18	7075-T6 Aluminum Alloy
3	Socket Lid	7075-T6 Aluminum Alloy
4	Compression Plate	7075-T6 Aluminum Alloy
5	Backing Plate 25x25mm	7075-T6 Aluminum Alloy
6	Ball Guide	Kapton Polyimide/Cirlex
7	Insulation Plate 25x25mm IC	FR4
8	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
9	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
10	Socket hd Cap, 4-40, 3/16" lg	Alloy Steel
11	Test chip	Material <not specified>
12	Test PCB	Material <not specified>
13	GT Elastomer 21x21mm IC 0.8mm pitch 25x25 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-2002 Drawing		Material: N/A Finish: N/A Weight: 47.75	STATUS: Released	SHEET: 4 OF 4	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 3:1
			FILE: GT-BGA-2002	DATE: 11/5/14	