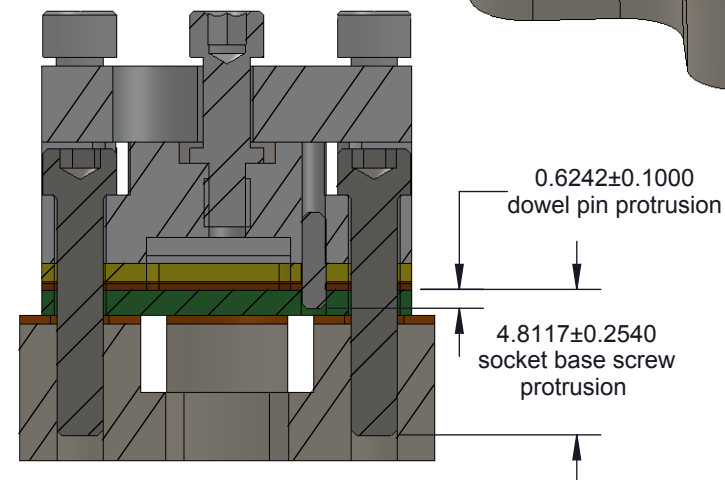
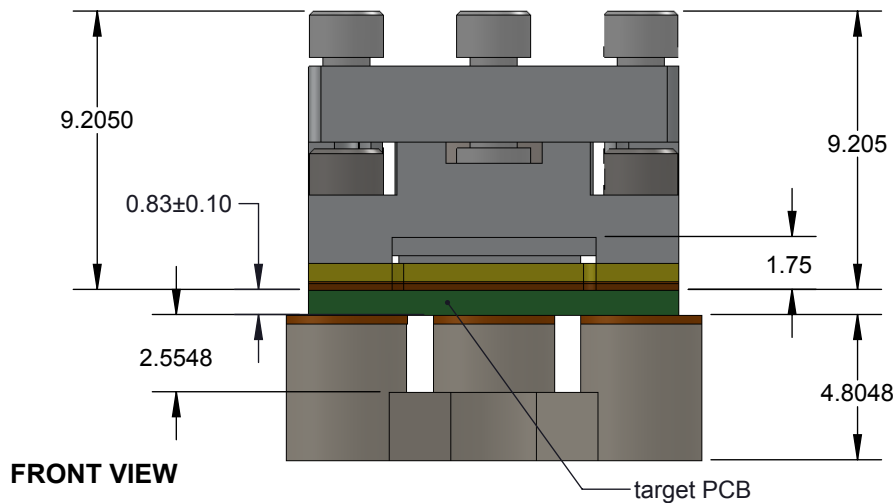
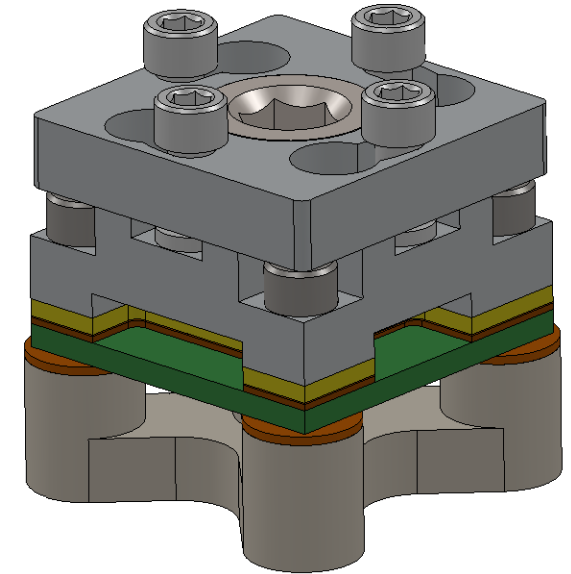
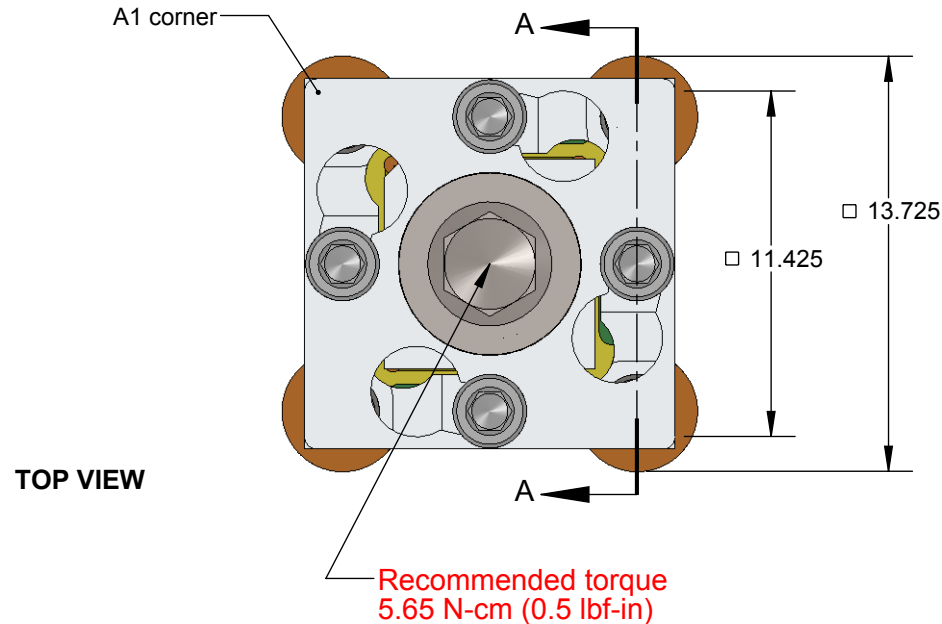


GHz BGA Socket - Direct mount, solderless

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



Description: SOCKET

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.

SG25-BGA-2005 Drawing



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

Material: N/A
Finish: N/A
Weight: 4.65

STATUS: Released

ENG: E. Smolentseva

FILE: SG25-BGA-2005 Dwg

SHEET: 1 OF 4

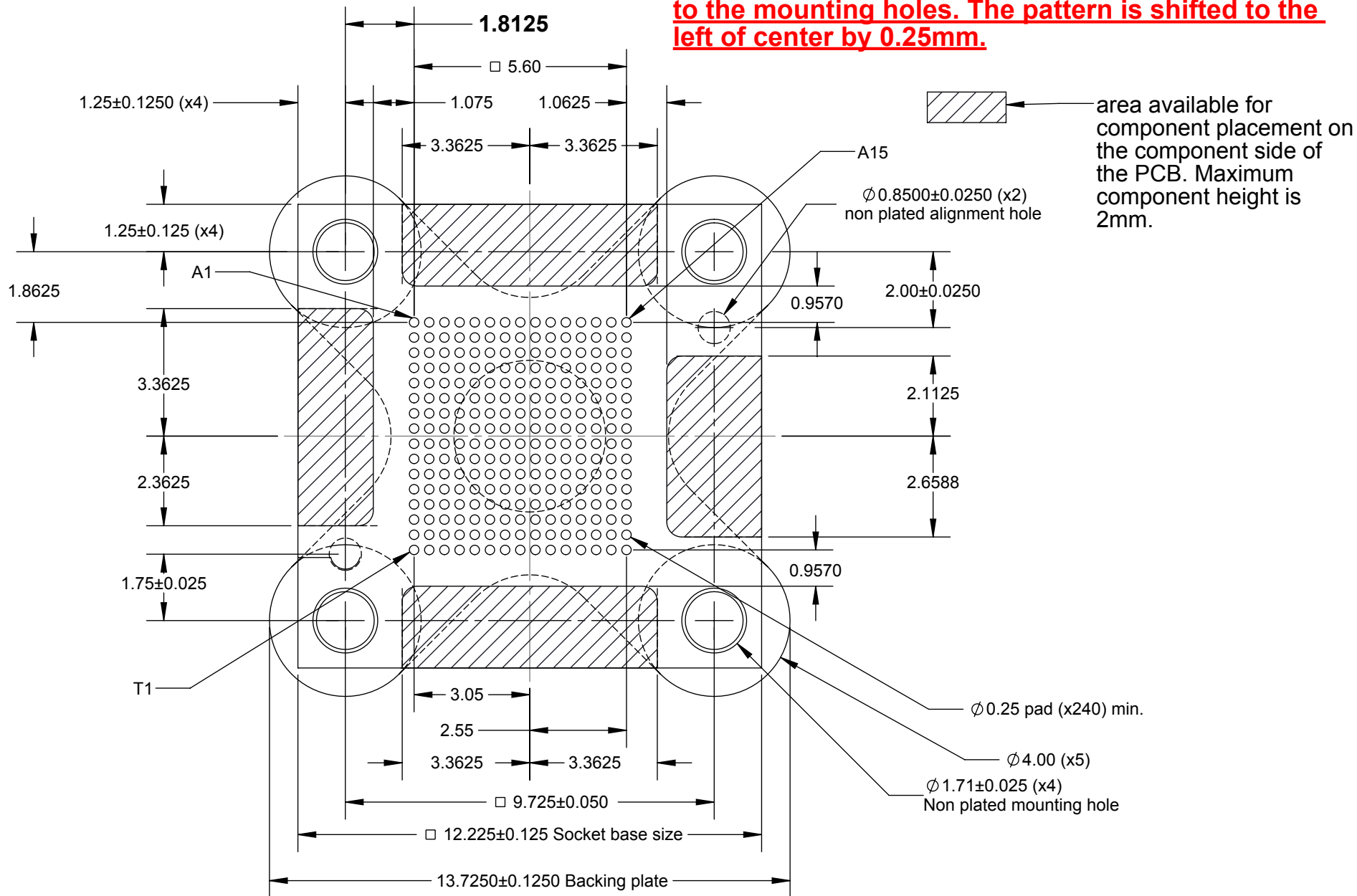
DRAWN BY: M. Raske

DATE: 07/27/2015

REV. A

SCALE: 4:1

***Note: BGA pattern is not symmetrical with respect to the mounting holes. The pattern is shifted to the left of center by 0.25mm.**



Description: Recommended PCB Layout

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

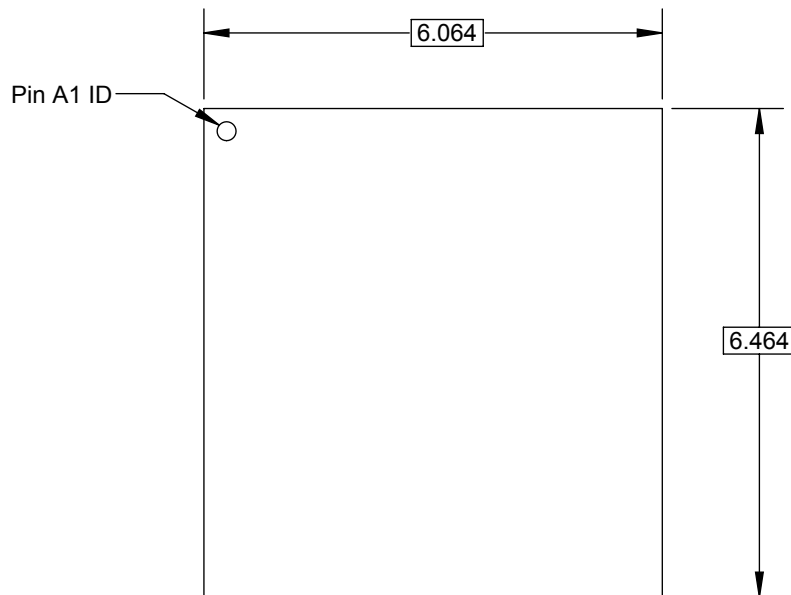
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

Target PCB Recommendations

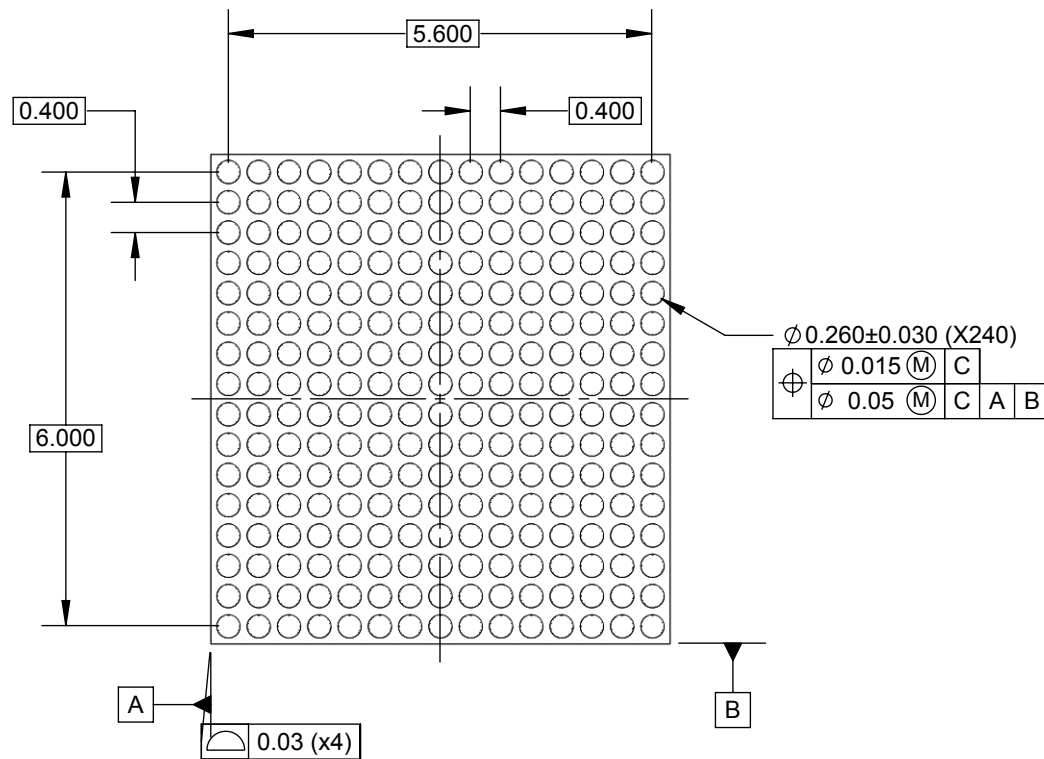
Total thickness: 0.76 min.

Plating: Gold or Solder finish

SG25-BGA-2005 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		Material: N/A Finish: N/A Weight: 4.65	STATUS: Released ENG: E. Smolentseva FILE: SG25-BGA-2005 Dwg	SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 07/27/2015	REV. A SCALE: 7:1
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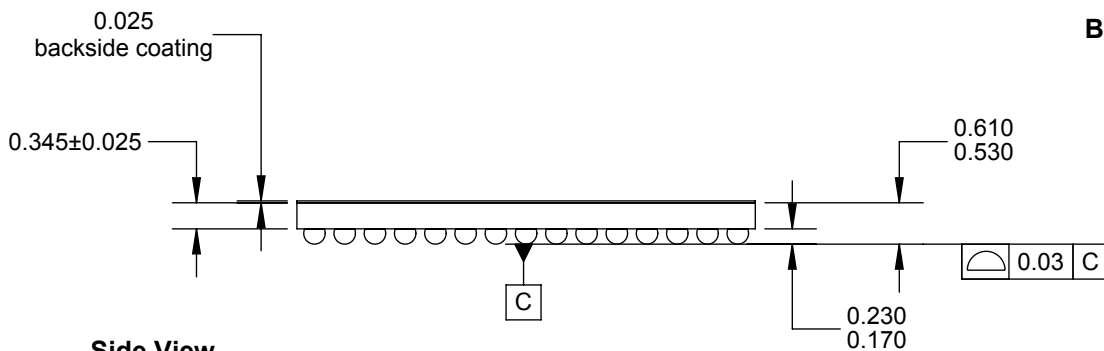


Top View



Bottom View

Array: 15 x 16



Side View

Ironwood package Code: BGA240Q

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.

SG25-BGA-2005 Drawing



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

Material: N/A
Finish: N/A
Weight: 4.65

STATUS: Released

ENG: E. Smolentseva

FILE: SG25-BGA-2005 Dwg

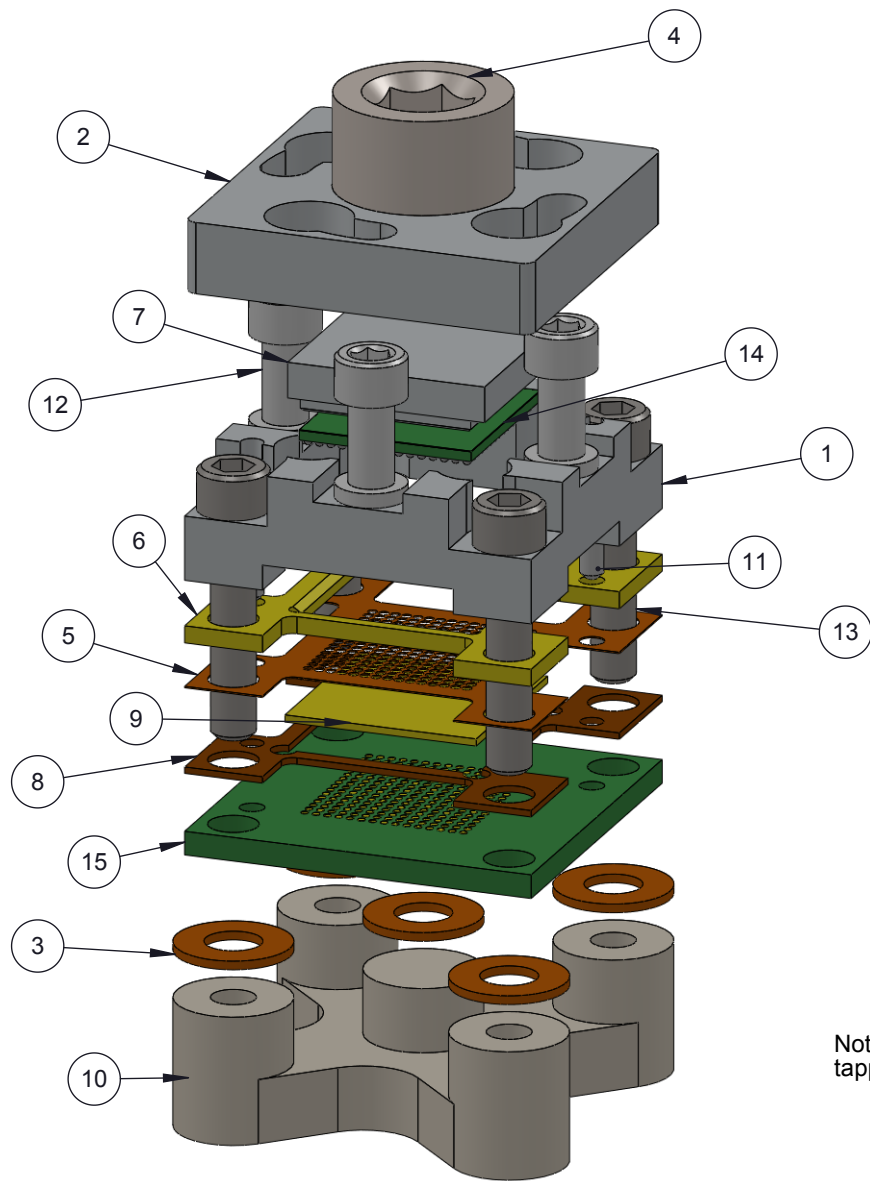
SHEET: 3 OF 4

DRAWN BY: M. Raske

DATE: 07/27/2015

REV. A

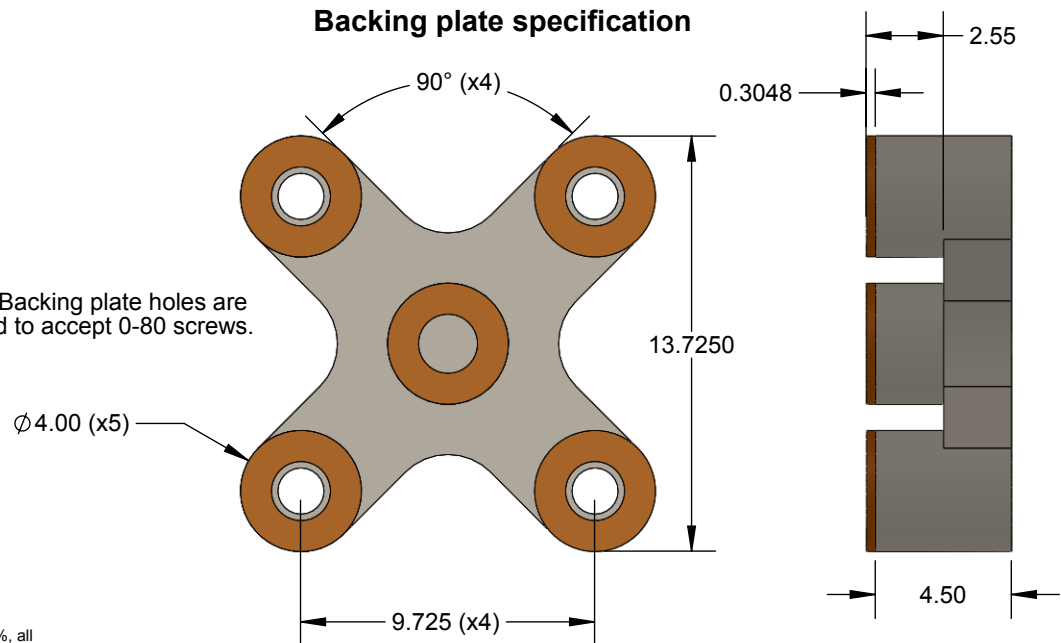
SCALE: 10:1



ITEM NO.	DESCRIPTION	Material
1	Socket Base 7mm	7075-T6 Aluminum Alloy
2	Socket Lid 7mm	7075-T6 Aluminum Alloy
3	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
4	Compression Screw M6x1	Stainless Steel (18-8)
5	Ball Guide 15x16 0.4mm pitch	Kapton Polyimide/Cirlex
6	IC guide for 6.064x6.064mm IC with 0.125mm shift	Torlon 4203
7	Compression Plate 7mm IC, 1.75mm thick	7075-T6 Aluminum Alloy
8	Elastomer Guide	Kapton Polyimide/Cirlex
9	0.25mm thick 0.05x 0.05mm pitch elastomer	20 Micron dia gold plated brass filaments arranged symmettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm
10	5 post backing plate	7075-T6 Aluminum Alloy
11	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
12	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
13	#0-80 X .313 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
14	BGA test chip	Material <not specified>
15	Customer's target PCB	Material <not specified>

Backing plate specification

Note: Backing plate holes are tapped to accept 0-80 screws.



Description: SOCKET SPEC

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.

SG25-BGA-2005 Drawing



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

Material: N/A
Finish: N/A
Weight: 4.65

STATUS: Released

ENG: E. Smolentseva

FILE: SG25-BGA-2005 Dwg

SHEET: 4 OF 4

DRAWN BY: M. Raske

DATE: 07/27/2015

REV. A

SCALE: 4:1