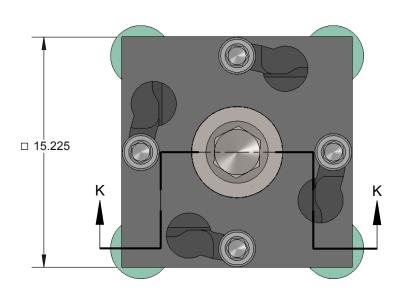
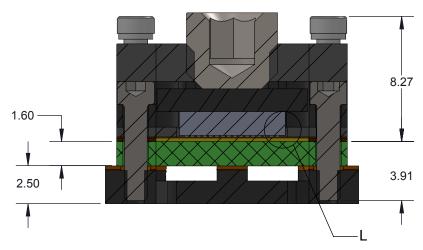
# SG25-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR TEST APPLICATIONS



#### **TOP VIEW**



#### **SECTION K-K**

# Description: SG25-BGA 7x7mm 0.4mm pitch 16x16 array

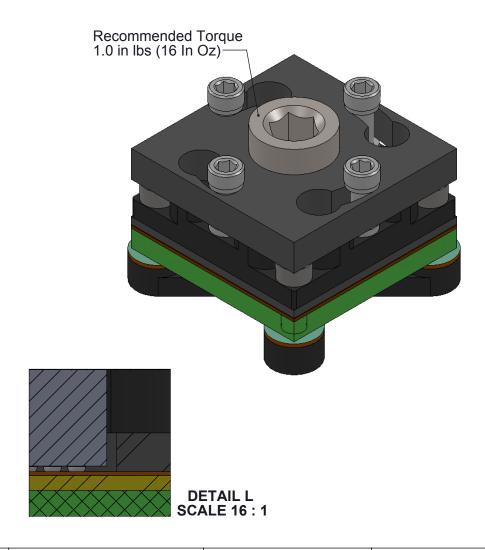
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

## **FEATURES**:

- Directly mounts to target PCB (needs tooling holes) with hardware.
  Over 40GHz bandwidth @-1dB
  Low and stable contact resistance for reliable production yield.

- Self inductance under 0.05nH.
- · Compression plate distributes forces evenly
- · Easily removable swivel socket lid



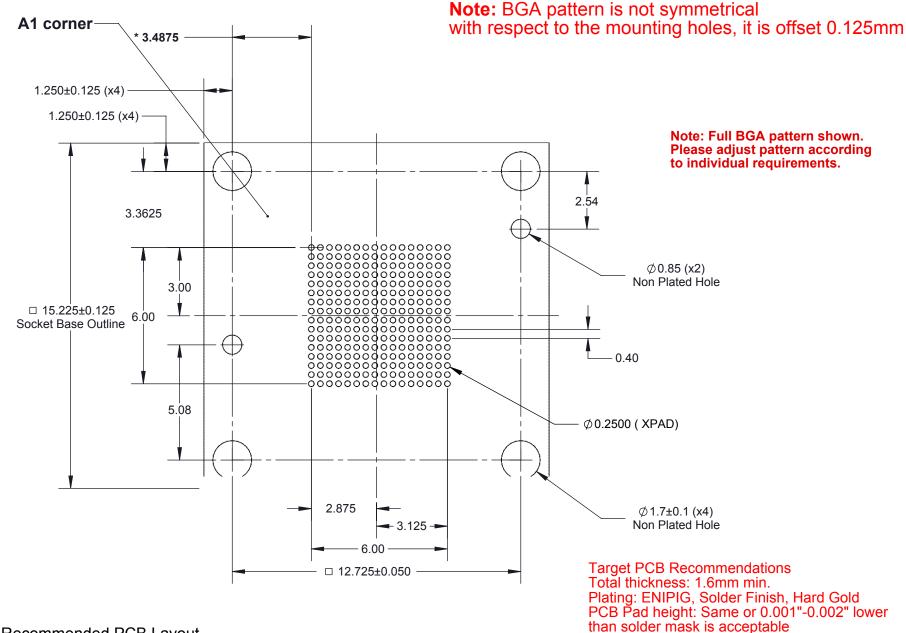
## SG25-BGA-2002 Drawing

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Material: Material <not specified> Finish:

Weight: 5.56

STATUS: Released	SHEET: 1 OF 4	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 4:1
FILE: SG25-BGA-2002	DATE: 1/17/15	



# Description: Recommended PCB Layout

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

Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

#### SG25-BGA-2002 Drawing

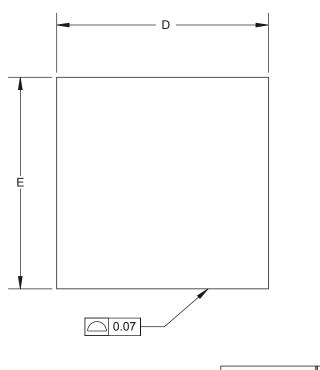
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish:

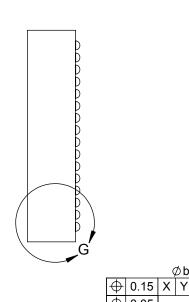
Weight: 5.56

STATUS: Released	SHEET: 2 OF 4	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 6:1
FILE: SG25-BGA-2002	DATE: 1/17/15	

Solder mask opening: 0.013"

#### **IRONWOOD PACKAGE CODE: BGA256A**

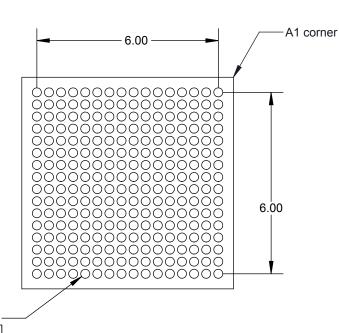


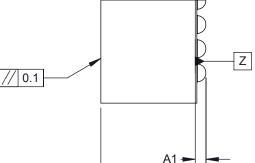


0.05

1. Dimensions are in millimeters.

2. Interpret dimensions and tolerances per ASME Y14.5M-1994.





DIM	Minimum	Maximum
Α	0.9	2.0
A1	0.14	0.24
b		0.30
D	7.0 BSC	
Е	7.0 BSC	
е	e 0.4 BSC	
ARRAY	16X16	
PIN COUN	Γ	256

#### **DETAIL G SCALE 16:1**

Description: Compatible BGA

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

 $\frac{Tolerances:}{Lo.0254mm} \ [\pm 0.001"], Pitches (from true position) \pm 0.0762mm \ [\pm 0.003"], substrate thickness tolerance \pm 10\%, all other tolerances \pm 0.127mm \ [\pm 0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.$ 

## SG25-BGA-2002 Drawing



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Material: Material <not specified> Finish:

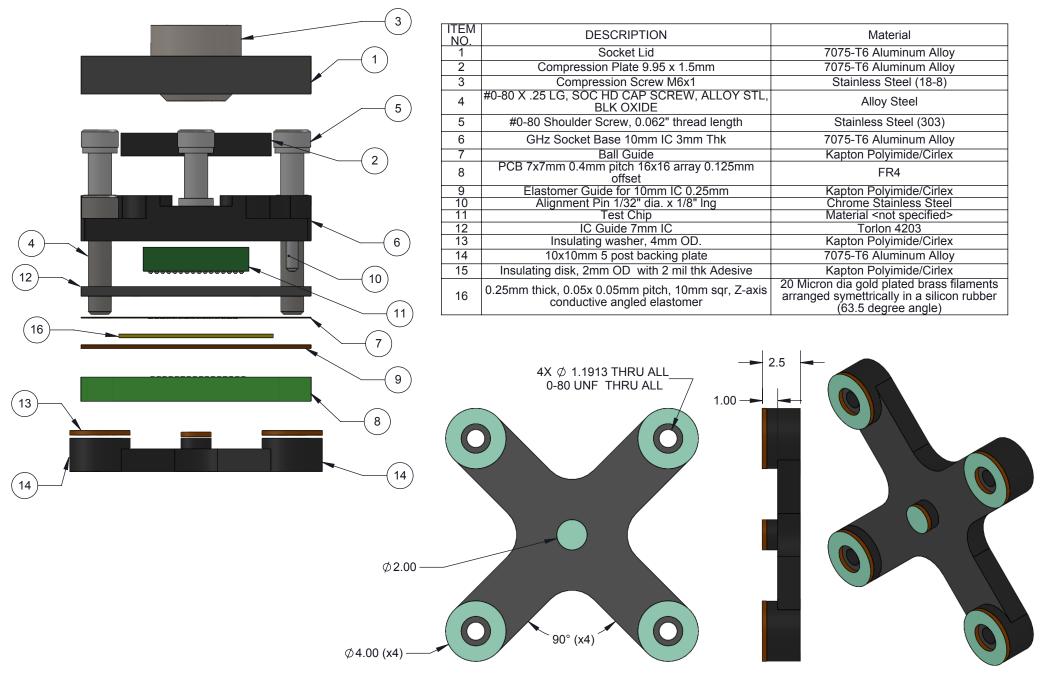
Weight: 5.56

STATUS: Released	SHEET: 3 OF 4	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 8:1
FILE: SG25-BGA-2002	DATE: 1/17/15	

3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.

5. Parallelism measurement shall exclude any effect of mark on top surface of package.

4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.



# **Description: Socket Specification**

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

Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

#### SG25-BGA-2002 Drawing



©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish:

Weight: 5.56

STATUS: Released	SHEET: 4 OF 4	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 4:1
FILE: SG25-BGA-2002	DATE: 1/17/15	

**Backing Plate Specification**