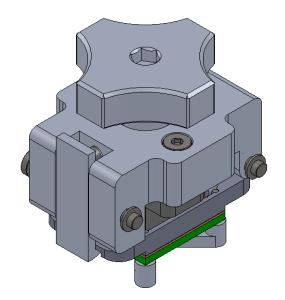
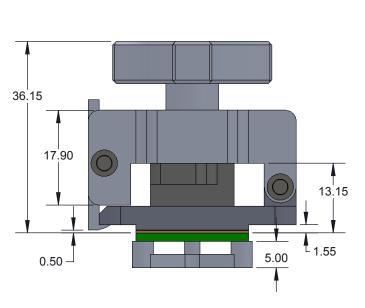
Clamshell GHz Socket - Direct mount, solderless

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
- Clamshell lid

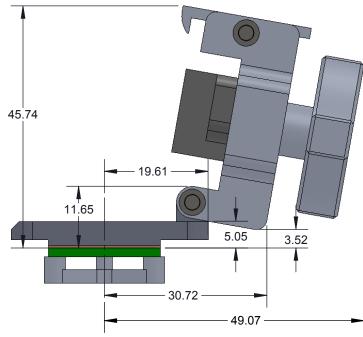
-Recommended Torque = 1.5 in-lbs or using hex key, turn the compression screw clockwise one half a turn after it contacts the package.

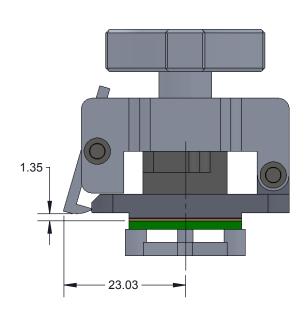




39.225

32.60





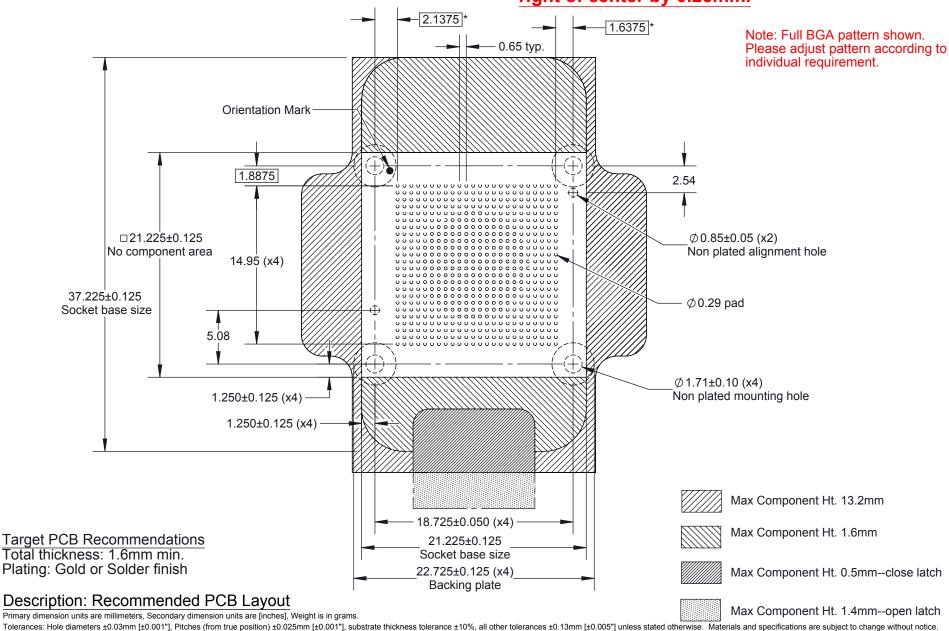
Description: CG-BGA 16x16mm 0.65mm pitch 24x24 array BGA436

Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

| CG | CG-BGA-5016 Specification Material: Material <not specified=""></not> | | STATUS: Released | SHEET: 1 OF 4 | REV. A |
|----|---|--------------------------|--------------------|---------------|--------|
| | Ironwood Electronics, Inc. | Finish: Weight: 68.74 | DRAWN BY: S. Huang | SCALE: 1.4:1 | |
| | Tele: (800) 404-0204 www.ironwoodelectronics.com | | FILE: CG-BGA-5016 | DATE: 9/14/12 | |

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



CG-BGA-5016 Drawing

Ironwood Electronics, Inc.

Tele: (800) 404-0204

www.ironwoodélectronics.com

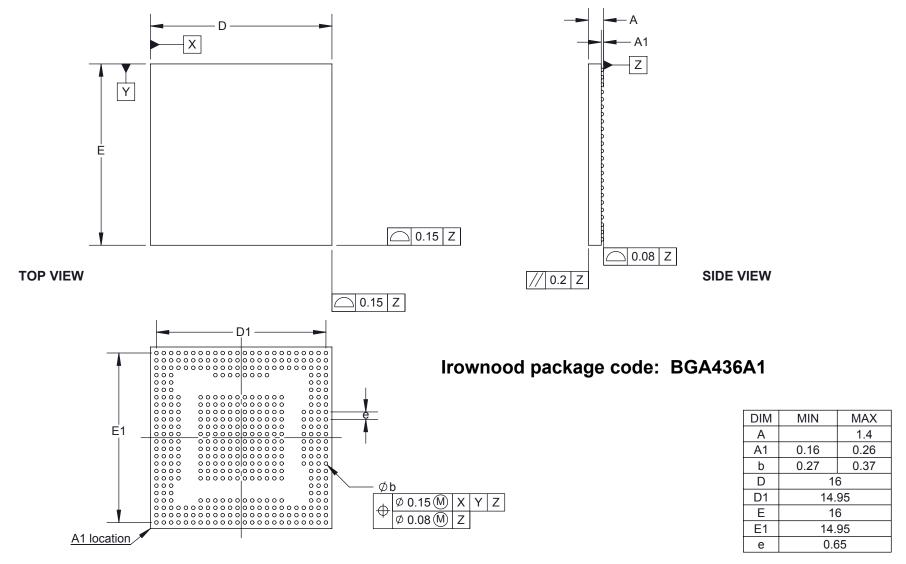
Material: Material <not specified> Finish:

Weight: 68.74

 STATUS: Released
 SHEET: 2 OF 4
 REV. A

 DRAWN BY: S. Huang
 SCALE: 2.8:1

 FILE: CG-BGA-5016
 DATE: 9/14/12



BOTTOM VIEW

- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5-1994. Dimension b is measured at the maximum solder bll diameter, parallel to datum plane Z. 3.

Array: 24x24

- 4.

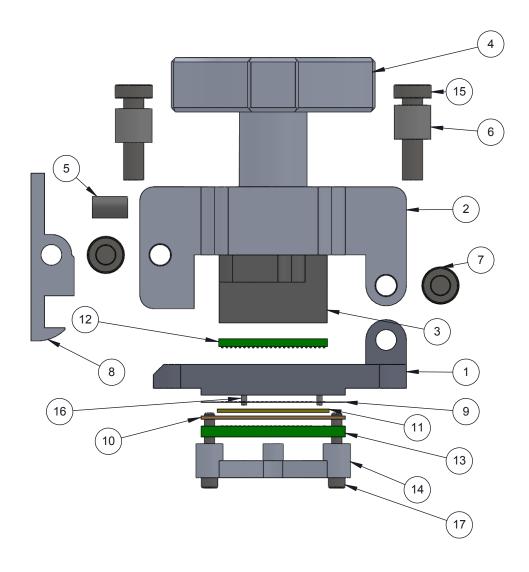
Description: Compatible BGA

Datum Z (seating plane) is defined by the spherical crowns of the solder balls. Parallelisml measurement shall exclude any effect of mark on top surface of package.

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

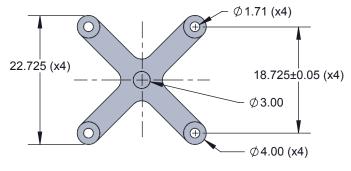
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

| CG-BGA-5016 D | CG-BGA-5016 Drawing Material: Material <not specified=""></not> | | STATUS: Released | SHEET: 3 OF 4 | REV. A |
|----------------------------|---|--------------------|-------------------|---------------|--------|
| Ironwood Electronics, Inc. | Finish: Weight: 68.74 | DRAWN BY: S. Huang | SCALE: 3:1 | | |
| | Tele: (800) 404-0204 www.ironwoodelectronics.com | Weight: 00.74 | FILE: CG-BGA-5016 | DATE: 9/14/12 | |

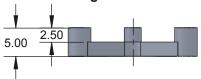


| ITEM NO. | DESCRIPTION | Material | |
|-------------|---|--|--|
| 1 | Socket Base | 7075-T6 Aluminum Alloy | |
| 2 | Clam shell lid for 17mm IC | 7075-T6 Aluminum Alloy | |
| 3 | Compression Plate | 7075-T6 Alumium Alloy | |
| 4 | M10 Comression Screw | 7075-T6 Aluminum Alloy | |
| 5 | Precision Compression Spring, Zinc- Plated Music Wire, 1/2" Length, .12" OD, .016" Wire | Zinc Plated Music Wire | |
| 6 | Spring Clamshell lid assembly | Steel Music Wire | |
| 7 | Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS | Stainless Steel (ferritic) | |
| 8 | Clamshell Latch | 7075-T6 Aluminum Alloy | |
| 9 | Ball Guide | Kapton Polyimide/Cirlex | |
| 10 | Elastomer Guide | Ultem 1000 | |
| 11 | 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer | 20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm | |
| 12 | Test Chip for 16x16mm 24x24 array 0.65mm pitch | Material <not specified=""></not> | |
| 13 | Test PCB 16x16mm 24x24 array 0.65mm pitch | Material <not specified=""></not> | |
| 14 | 16x16mm Clamshell Backing Plate | 7075-T6 Aluminum Alloy | |
| 15 | Screw, M3 x 12mm, Low Head Cap, SS | 18-8 Stainless Steel | |
| 16 | Dowel Pin, 1/32" x 3/16", SS | Chrome Stainless Steel | |
| 17 | #0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE | Alloy Steel | |

Backing Plate Top View



Backing Plate Side View



Description: Skt and Backing plate Detail

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.

| CG-BGA-5016 Drawing | Material: Material <not specified=""></not> | STATUS: Released | SHEET: 4 OF 4 | REV. A |
|--|---|--------------------|---------------|--------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 | Finish: Weight: 68.74 | DRAWN BY: S. Huang | SCALE: 1.8:1 | |
| www.ironwoodelectronics.com | | FILE: CG-BGA-5016 | DATE: 9/14/12 | |