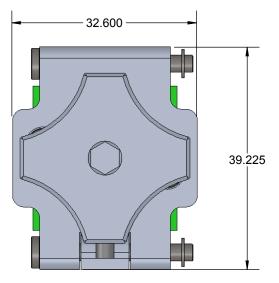
GHz BGA Socket - Direct mount, solderless

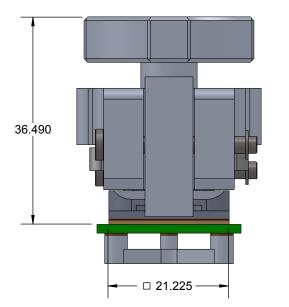


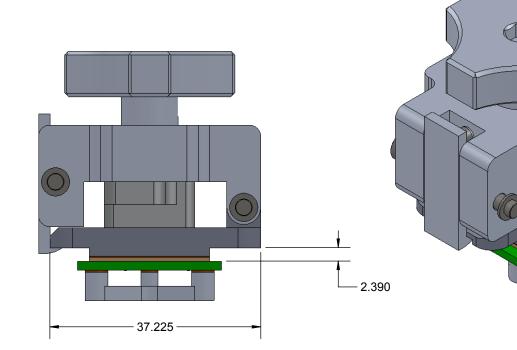
Features

Directly mounts to target PCB (needs tooling holes) with hardware High speed, reliable Elastomer connection Minimum real estate required

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- Compression plate distributes forces evenly Ball guide prevents over compression of elastomer Recommended Torque: 1.3in-lbs ٠



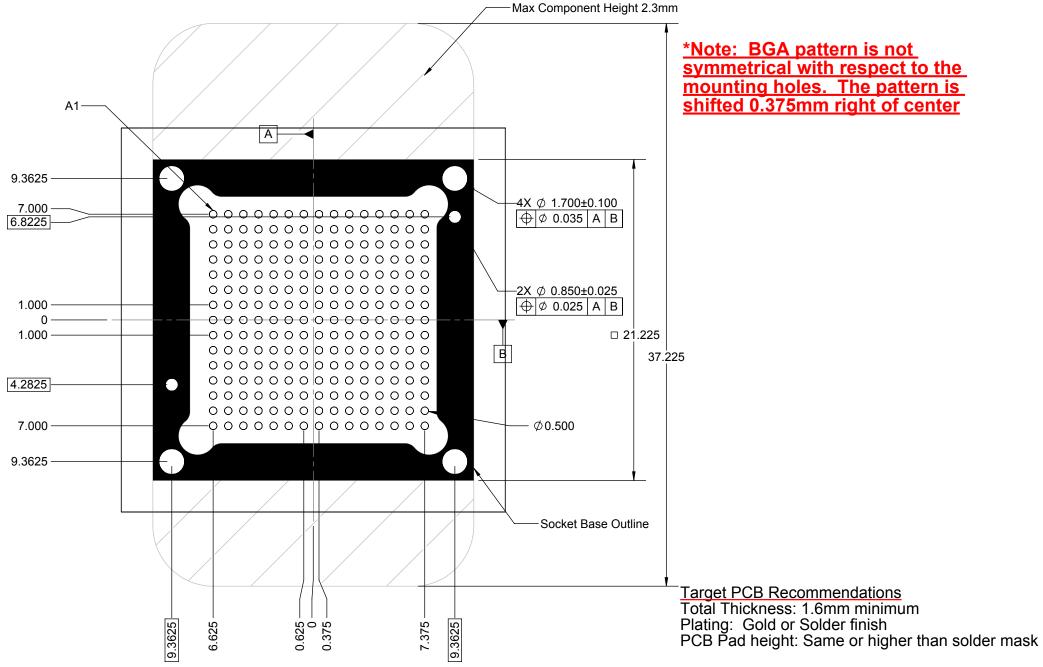


Description: CG-BGA225 16x16mm IC 15x15array

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.

| CG-BGA-4021 Drawing | Material: N/A | STATUS: Released | SHEET: 1 OF 4 | REV. A |
|---|------------------------------|-----------------------|--------------------|------------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Finish: N/A Weight: 71.13 | ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 3:2 |
| | Weight, 71.10 | FILE: CG-BGA-4021 Dwg | DATE: 07/15/2014 | |



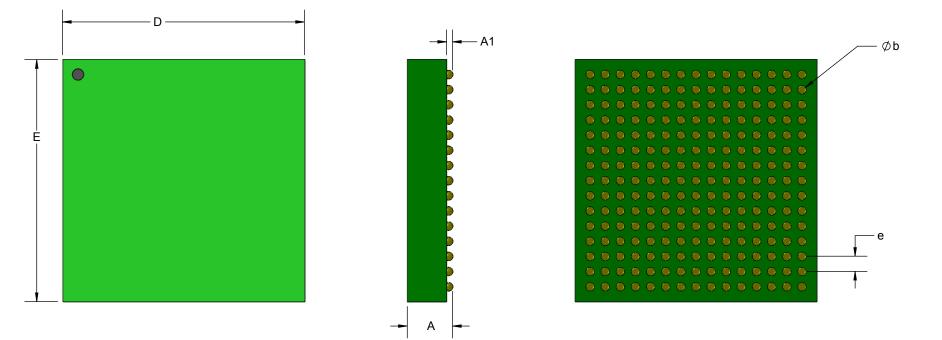
Description: Recommended PCB Layout

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.

| C | G-BGA-4021 Drawing | Material: N/A | STATUS: Released | SHEET: 2 OF 4 | REV. A |
|---|------------------------------|---------------|-----------------------|------------------|--------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Finish: N/A Weight: 71.13 | ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 4:1 | |
| | | - J | FILE: CG-BGA-4021 Dwg | DATE: 07/15/2014 | |

Ironwood Package code: BGA225K



| DIM | MIN | MAX |
|-----|---------|-------|
| Α | | 3.0 |
| A1 | 0.40 | 0.60 |
| b | 0.45 | 0.7 |
| D | 15.90 | 16.10 |
| Е | 15.90 | 16.10 |
| е | 1.0 BSC | |

Dimensions are in millimeters.

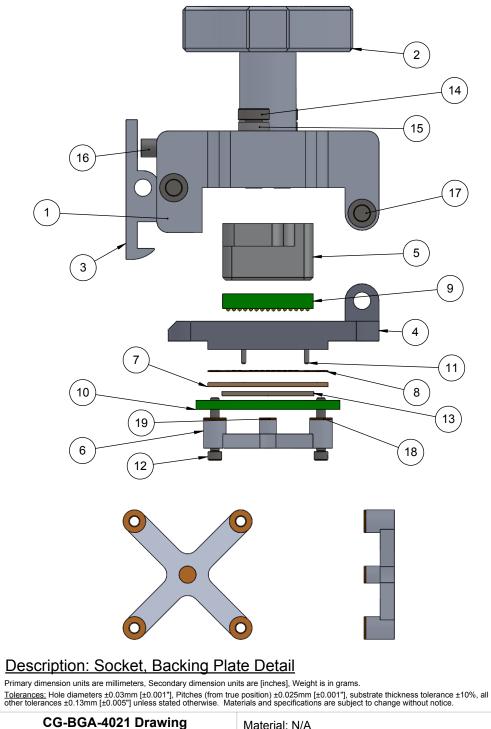
- 1. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 2. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 3. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 4. Parallelism measurement shall exclude any effect of mark 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 ±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.

| C | G-BGA-4021 Drawing | Material: N/A | STATUS: Released | SHEET: 3 OF 4 | REV. A |
|---|--------------------|-----------------------|--------------------|---------------|--------|
| | Weight: 71.13 | ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 4:1 | |
| | | FILE: CG-BGA-4021 Dwg | DATE: 07/15/2014 | | |



| | ITEM NO. | DESCRIPTION | | | Material |
|----------------------|-------------|---|---|--------|----------------------------------|
| | 1 | Clam sh | ell lid for 17mm IC | 70 | 75-T6 Aluminum Alloy |
| | 2 M10 C | | omression Screw | 70 | 75-T6 Aluminum Alloy |
| 3 CI | | Clo | amshell Latch | 70 | 75-T6 Aluminum Alloy |
| | 4 | CG Sock Pocket | ket Base 16.325mm 18.725mm Holes | 70 | 75-T6 Aluminum Alloy |
| | 5 | | nshell 16mm IC npression Plate | 70 |)75-T6 Alumium Alloy |
| | 6 | | 6mm Clamshell acking Plate | 70 | 75-T6 Aluminum Alloy |
| | 7 | Elastom | er Guide 16mm IC | | Ultem 1000 |
| | 8 | Ball Guid | de BGA 225 1.0mm pitch | Ka | apton Polyimide/Cirlex |
| | 9 | | x 225 Test Chip mm 15x15 array | M | aterial <not specified=""></not> |
| | 10 | BGA | A 225 Test PCB | | FR4 Standard |
| | 11 | Dowel P | in, 1/32" x 3/16", SS | С | hrome Stainless Steel |
| | 12 | | 375 lg, soc hd Ew, alloy stl, blk Oxide | | Alloy Steel |
| | 13 | | thick 0.1mm pitch angled elastomer | | Silicon Rubber |
| | 14 | | M3 x 12mm, Low ead Cap, SS | | 18-8 Stainless Steel |
| | 15 | Sprin | g Clamshell lid assembly | | Steel Music Wire |
| | 16 | Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire | | Zi | nc Plated Music Wire |
| | 17 | Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS | | S | tainless Steel (ferritic) |
| | 18 | Insulating washer, 4mm OD. Insulating washer, 3mm OD. | | Ka | apton Polyimide/Cirlex |
| | 19 | | | Ka | apton Polyimide/Cirlex |
| ATUS: Relea | ised | | SHEET: 4 OF 4 | REV. A | |
| G: B. Fedde | | | DRAWN BY: M. Raske SCALE: 3:2 | | SCALE: 3:2 |
| ILE: CG-BGA-4021 Dwg | | | DATE: 07/15/2014 | | |

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| |

www.

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|------------|------------------|
| Ironwood E | lectronics, Inc. |
| Tele: (80 | 0) 404-0204 |
| ww.ironwoo | délectronics.com |
| | |

| Material: N/A |
|------------------------------|
| Finish: N/A Weight: 71.13 |