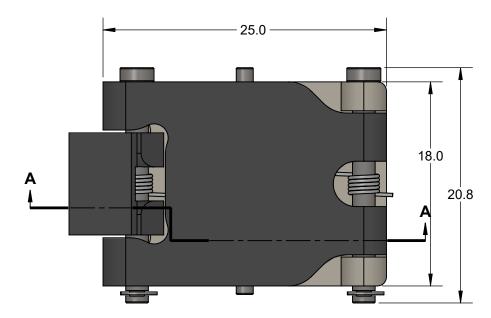
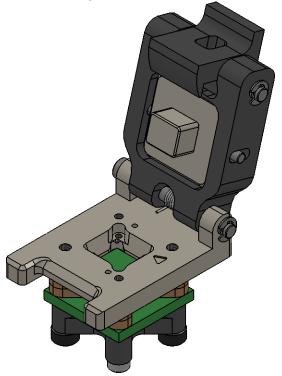
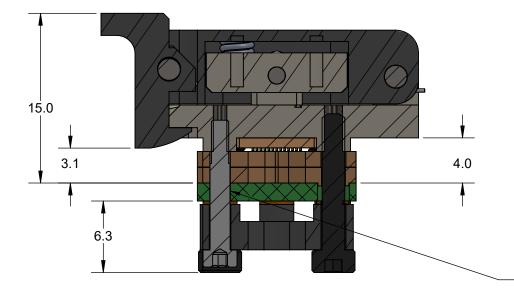
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATIONS**



FEATURES:

Wide temperature range (-55C to +135C) High current capability (up to 0.5A) Excellent signal integrity at high frequencies Low and stable contact resistance for reliable production yield Highly compliant to accommodate wide co-planarity variations Automated probe manufacturing enables low cost and short lead time



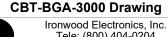


To make proper alignment when mounting the socket to the PCB insert the smaller shoulder screws before inseting the larger cap screws

Description: CBT-BGA195 13x15 array 0.35mm pitch Snap Lid

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

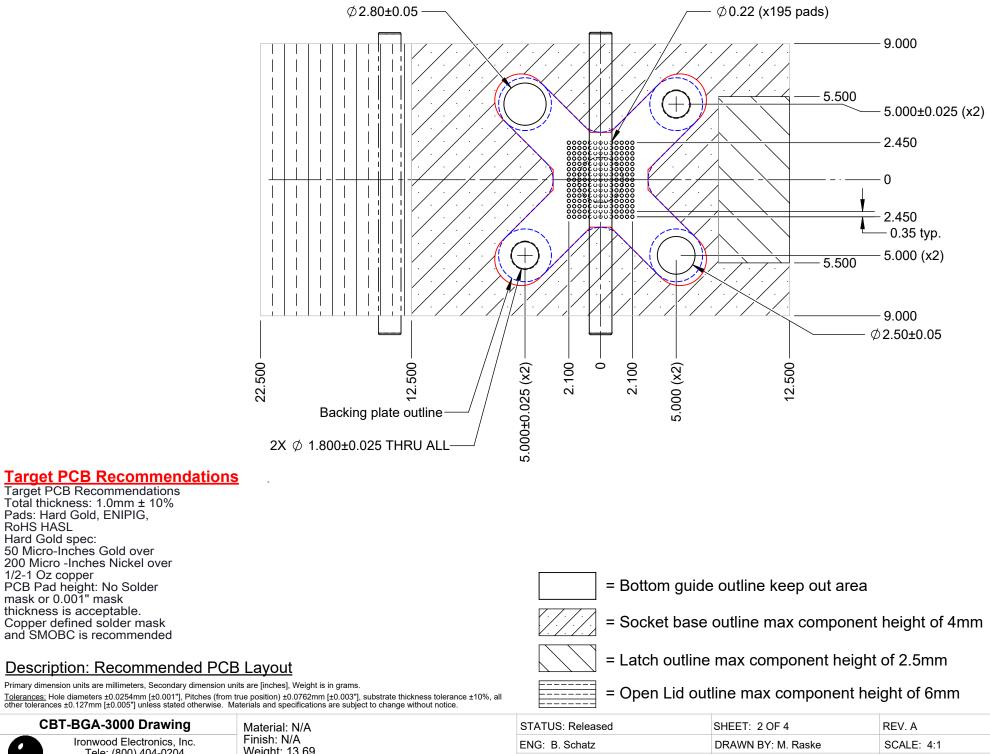
Tolerances: Hole diameters ±0.03mm [±0.001"]. Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.



Tele: (800) 404-0204 www.ironwoodelectronics.com

| Material: N/A |
|------------------------------|
| Finish: N/A Weight: 13.69 |
| |

| STATUS: Released | SHEET: 1 OF 4 | REV. A |
|------------------------|--------------------|------------|
| ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 3:1 |
| FILE: CBT-BGA-3000 Dwg | DATE: 06/15/2016 | |



FILE: CBT-BGA-3000 Dwg

DATE: 06/15/2016

1/2-1 Oz copper PCB Pad height: No Solder mask or 0.001" mask thickness is acceptable. Copper defined solder mask and SMOBC is recommended

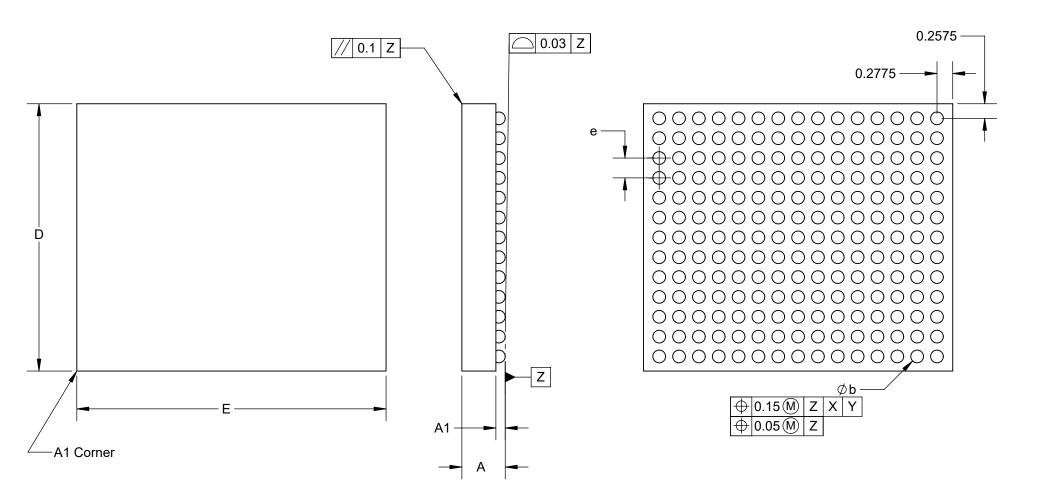
RoHS HASL Hard Gold spec:

CBT-BGA-3000 Drawing



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

Weight: 13.69



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

Description: Compatible BGA

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances:</u> 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.

| CBT-BGA-3000 Drawing | |
|----------------------------|---|
| Ironwood Electronics, Inc. | • |

ww

| onwood Electronics, Inc. |
|---------------------------|
| Tele: (800) 404-0204 |
| w.ironwoodelectronics.com |

| Material: N/A |
|------------------------------|
| Finish: N/A Weight: 13.69 |

| STATUS: Released | SHEET: 3 OF 4 | REV. A |
|------------------------|--------------------|-------------|
| ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 15:1 |
| FILE: CBT-BGA-3000 Dwg | DATE: 06/15/2016 | |

DIM

А

A1

b

D

Е

е

PIN COUNT

ARRAY

Minimum

0.454

0.15

0.195

Maximum

0.55

0.18

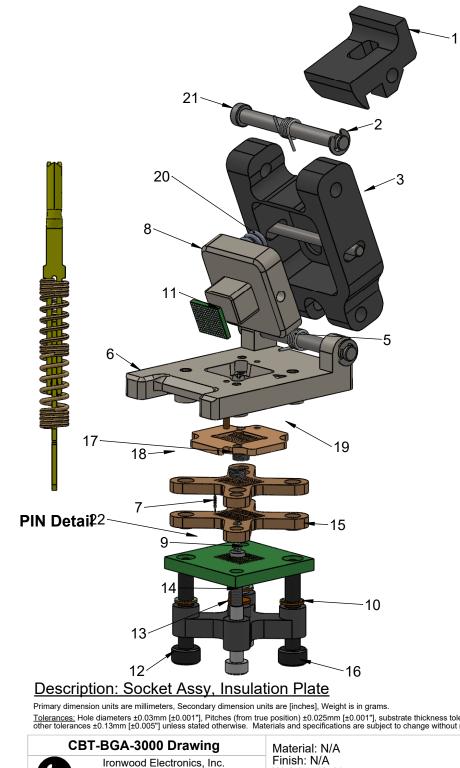
0.255

195

4.715 BSC

5.455 BSC 0.35 BSC

13 x 15



| | | ON | Material |
|---|---|--|---|
| Latch | | | PPS |
| | Snap ring | | Steel |
| | | k | PPS |
| | Lid pin | | Steel |
| | • | • | Steel |
| | 0 | | Steel |
| Stam | ped Pin, 0.35mr | n SBT-BGA | N/A |
| | Spring pir | 1 | Au/Ni plated |
| | Target PC | B | FR4 High temp |
| | Insulating was | sher | Kapton |
| | Mounting Sc | rew | Steel |
| | Backing Pla | ate | Aluminum |
| | Insulating cir | rcle | Kapton |
| | Target PC | В | N/A |
| Bottom | Guide BGA195 | 0.35mm pitch | Semitron MDS 100 |
| | | • | Aluminum |
| | Floating guide | spring | Steel |
| | Compatible E | BGA | N/A |
| Floating | Guide BGA195 | 0.35mm pitch | Aluminum |
| | Wave Sprir | ng | Steel |
| | Hinge Pin | 1 | Steel |
| Metric Cheese Head Slotted Machine Screw, | | 18-8 Stainless Steel | |
| Alignment | Pin 1/32" dia. x1 | .75mm Ing Brass | Brass 360 |
| | 10.000 (x4) | Ø 3.000 Ø 3.500 (x4) KING PLATE DETAIL | |
| | | SHEET: 4 OF 4 | REV. A |
| STATI IS Polooog | | | |
| STATUS: Release ENG: B. Schatz | eu | DRAWN BY: M. Raske | SCALE: 2:1 |
| | Bottom Floating Metric Chee M1 Size Alignment I | Socket Lid Lid pin Torsion Spri Alignment F Stamped Pin, 0.35mr Spring pir Target PC Insulating wa Mounting Sc Backing Pla Insulating cir Target PC Bottom Guide BGA195 Socket Bas Floating guide S Compatible E Floating Guide BGA195 Wave Sprir Hinge Pin Metric Cheese Head Slotte M1 Size, 4 mm Length, Alignment Pin 1/32" dia. x1 | Socket Lid Lid pin Torsion Spring Alignment Pin Stamped Pin, 0.35mm SBT-BGA Spring pin Target PCB Insulating washer Mounting Screw Backing Plate Insulating circle Target PCB Bottom Guide BGA195 0.35mm pitch Socket Base Floating guide spring Compatible BGA Floating Guide BGA195 0.35mm pitch Wave Spring Hinge Pin Metric Cheese Head Slotted Machine Screw, M1 Size, 4 mm Length, .25 mm Pitch Alignment Pin 1/32" dia. x1.75mm Ing Brass |

| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Finish: N/A Weight: 13.69 |
|---|------------------------------|
|---|------------------------------|