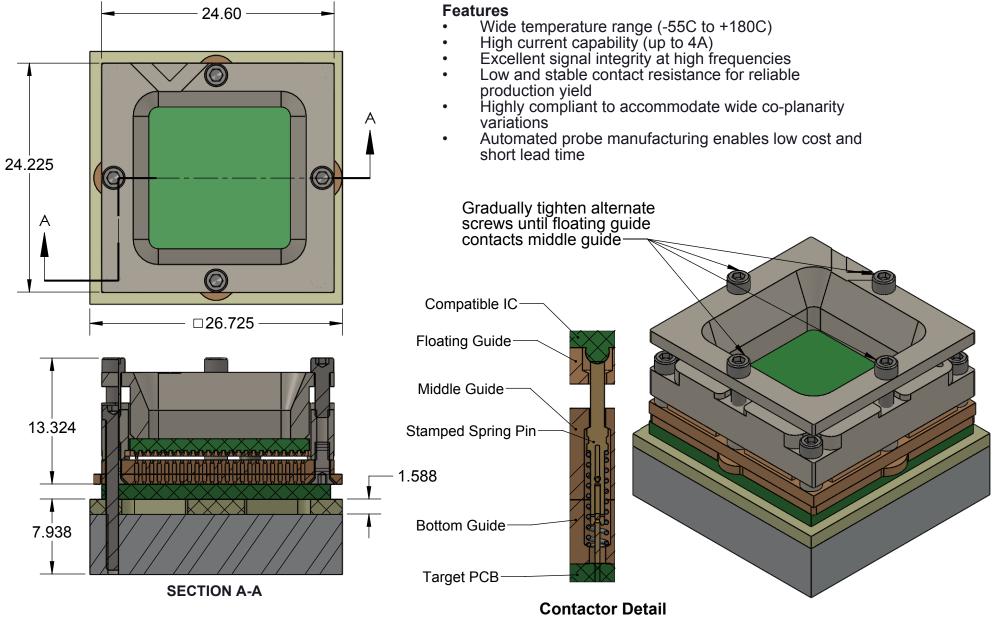
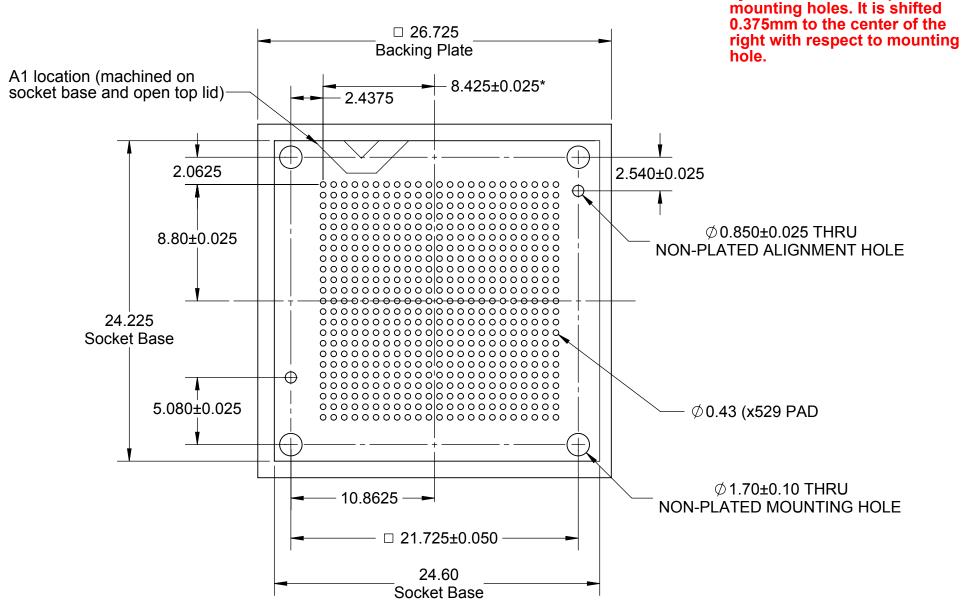
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Description: SBT-BGA529 19mm 23x23 0.8 OT

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Iolerances:</u> Hole diameters ± 0.03 mm [± 0.001 "], Pitches (from true position) ± 0.025 mm [± 0.001 "], substrate thickness tolerance $\pm 10\%$, all other tolerances ± 0.13 mm [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change

| SBT-BGA-6519 Drawing | Finish: N/A Weight: 24.93 | STATUS: Released | SHEET: 1 OF 4 | REV. A |
|---|------------------------------|------------------------|--------------------|------------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | | ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 5:2 |
| | | FILE: SBT-BGA-6519 Dwg | DATE: 10/21/2014 | |



Description: Recommended PCB Layout

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

 $\underline{\textbf{Tolerances:}} \ \text{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 the tolerance $\pm 0.13 \text{mm} $[\pm 0.005"]$ unless stated otherwise. Materials and specifications are subject to change$

SBT-BGA-6519 Drawing

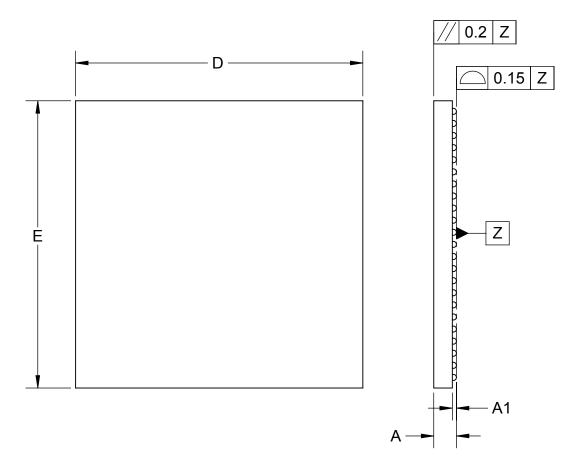
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 24.93

| STATUS: Released | SHEET: 2 OF 4 | REV. A |
|------------------------|--------------------|------------|
| ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 7:2 |
| FILE: SBT-BGA-6519 Dwg | DATE: 10/21/2014 | |

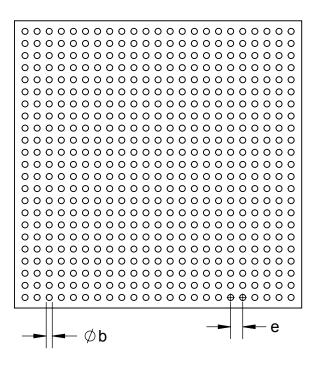
Target PCB Recommendations Total thickness: 1.6mm min. Plating: Gold or Solder finish

*Note: BGA pattern is not

symmetrical with respect to the



Ironwood Package code: BGA529D



- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
 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.

| DIM | Minimum | Maximum |
|-----|---------|---------|
| Α | 1.0 | 3.0 |
| A1 | 0.20 | 0.34 |
| b | 0.35 | 0.45 |
| D | 18.8 | 19.2 |
| Е | 18.8 | 19.2 |
| е | 0.8 BSC | |

Array: 23x23

Description: BGA

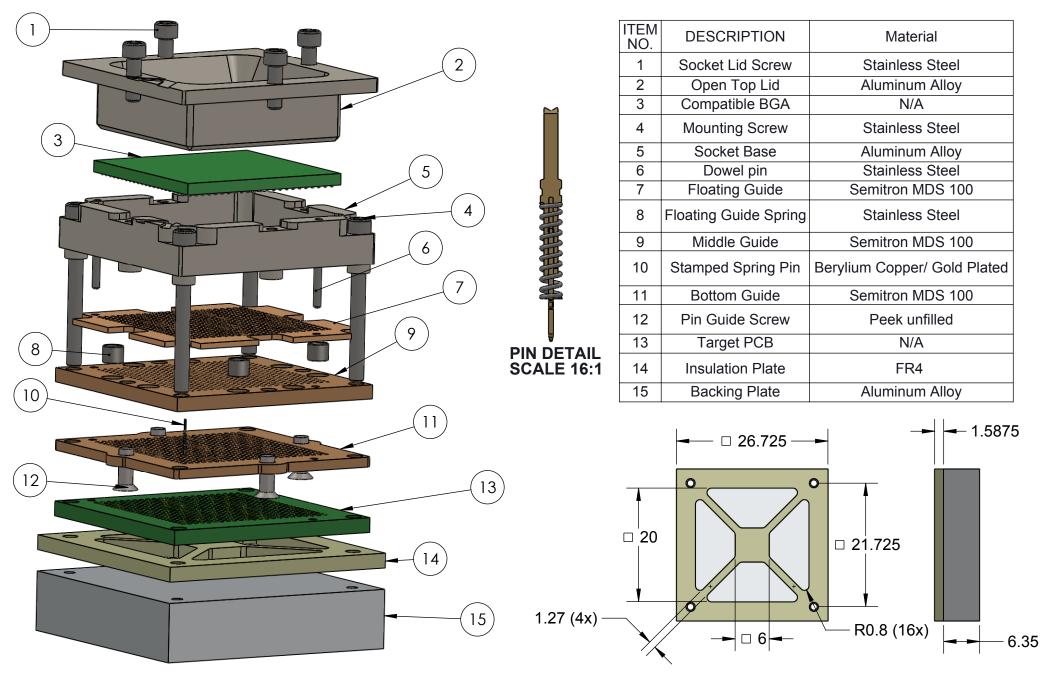
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

<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"] únless stated otherwise. Materials and specifications are subject to change SBT-BGA-6519 Drawing

| ODI-DOA-0313 Diawing | | |
|----------------------|--|--|
| | Ironwood Electronics, Inc. Tele: (800) 404-0204 | |
| | www.ironwoodelectronics.com | |

Material: N/A Finish: N/A Weight: 24.93

| STATUS: Released | SHEET: 3 OF 4 | REV. A |
|------------------------|--------------------|------------|
| ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 4:1 |
| FILE: SBT-BGA-6519 Dwg | DATE: 10/21/2014 | |



Description: Socket Material Info

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

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

SBT-BGA-6519 Drawing



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 24.93

| STATUS: Released | SHEET: 4 OF 4 | REV. A |
|------------------------|--------------------|------------|
| ENG: B. Schatz | DRAWN BY: M. Raske | SCALE: 5:2 |
| FILE: SBT-BGA-6519 Dwg | DATE: 10/21/2014 | |

Insulation and Backing Plate Specification