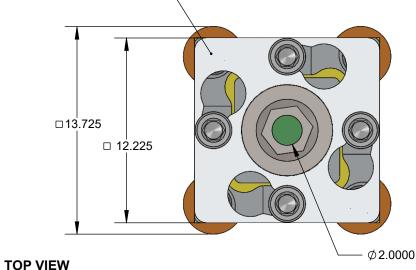
GHz BGA Socket - Direct mount, solderless

A1 orientation mark-

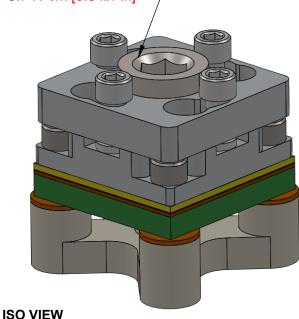


Features

- 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
 Easily removable swivel socket lid

8.08 4.80

Recommended torque = 5.7 N-cm [0.5 lbf-in]



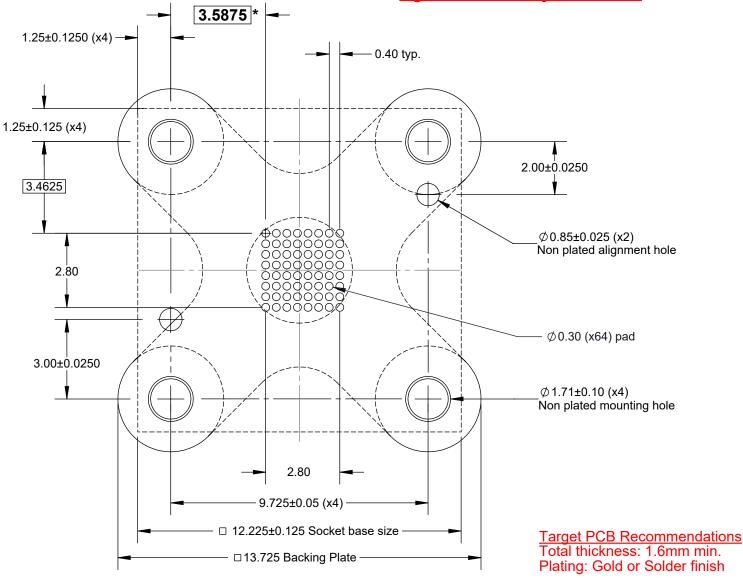
FRONT VIEW

Description: SG25-BGA64, 4mm, 0.4mm pitch

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

| SG25-BGA-2018 Drawing | Material: N/A Finish: N/A Weight: 4.72 | STATUS: Released | SHEET: 1 OF 4 | REV. A |
|---|--|-------------------------|--------------------|------------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | | ENG: M.A. Fedde | DRAWN BY: M. Raske | SCALE: 4:1 |
| | | FILE: SG25-BGA-2018 Dwg | DATE: 01/27/2016 | |

*Note: BGA pattern is not symmetrical with respect to the mounting holes. The pattern is shifted to the right of center by 0.125mm.

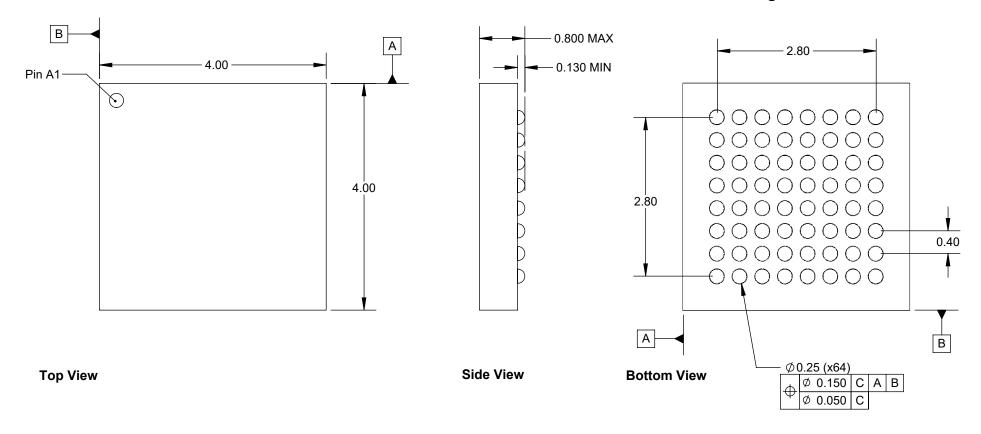


Description: Recommended PCB Layout

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.

| SG25-BGA-2018 Drawing | SG25-BGA-2018 Drawing Material: N/A | | SHEET: 2 OF 4 | REV. A |
|--|-------------------------------------|-------------------------|--------------------|------------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 | Finish: N/A Weight: 4.72 | ENG: M.A. Fedde | DRAWN BY: M. Raske | SCALE: 7:1 |
| www.ironwoodelectronics.com | | FILE: SG25-BGA-2018 Dwg | DATE: 01/27/2016 | |

Ironwood Package Code: BGA64R



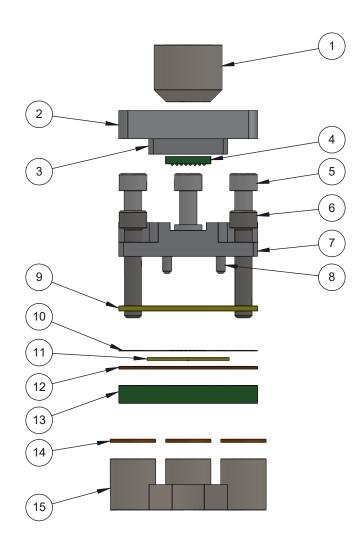


Description: BGA

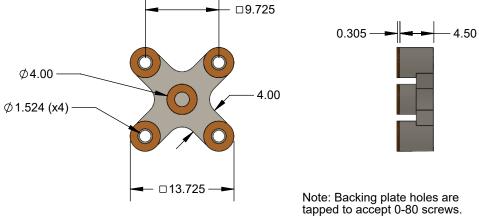
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

| SC | G25-BGA-2018 Drawing | Material: N/A | STATUS: Released | SHEET: 3 OF 4 | REV. A |
|---|-----------------------------|-----------------|-------------------------|------------------|--------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Finish: N/A Weight: 4.72 | ENG: M.A. Fedde | DRAWN BY: M. Raske | SCALE: 15:1 | |
| | | | FILE: SG25-BGA-2018 Dwg | DATE: 01/27/2016 | |



| TEM NO. | Description | Material Stainless Steel (18-8) | |
|---------|--|------------------------------------|--|
| 1 | Compression Screw M6x1 w/2mm thru hole | | |
| 2 | Socket Lid 7mm | 7075-T6 Aluminum Alloy | |
| 3 | Compression Plate 7mm IC, 1.5mm thick w/ 2mm thru hole | 7075-T6 (SN) | |
| 4 | BGA test chip | Material <not specified=""></not> | |
| 5 | #0-80 Shoulder Screw, 1.59mm thread length | Stainless Steel (303) | |
| 6 | #0-80 X .313 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE | Alloy Steel | |
| 7 | Socket Base 7mm | 7075-T6 (SN) | |
| 8 | Alignment Pin 1/32" dia. x 1/8" Ing | Chrome Stainless Steel | |
| 9 | IC (MLF) Guide | Torlon 4203 | |
| 10 | Ball Guide | Kapton Polyimide/Cirlex | |
| 11 | 110.25mm thick 0.05mm pitch 63 deg angled elastomerSG Elastomer | | |
| 12 | Elastomer guide | Kapton Polyimide/Cirlex | |
| 13 | Customer's target PCB | FR4 Standard | |
| 14 | Insulating washer, 4mm OD. | . Kapton Polyimide/Cirlex | |
| 15 | 5 post backing plate | 7075-T6 Aluminum Alloy | |



Insulation plate and Backing plate specification

Description: SOCKET SPEC

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

Tolerances: 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 notice.

| SG25-BGA-2018 Dra | awing | Material: N/A | STATUS: Released | SHEET: 4 OF 4 | REV. A |
|--|-----------------------------|-----------------|-------------------------|------------------|--------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 | Finish: N/A Weight: 4.72 | ENG: M.A. Fedde | DRAWN BY: M. Raske | SCALE: 4:1 | |
| | www.ironwoodelectronics.com | | FILE: SG25-BGA-2018 Dwg | DATE: 01/27/2016 | |