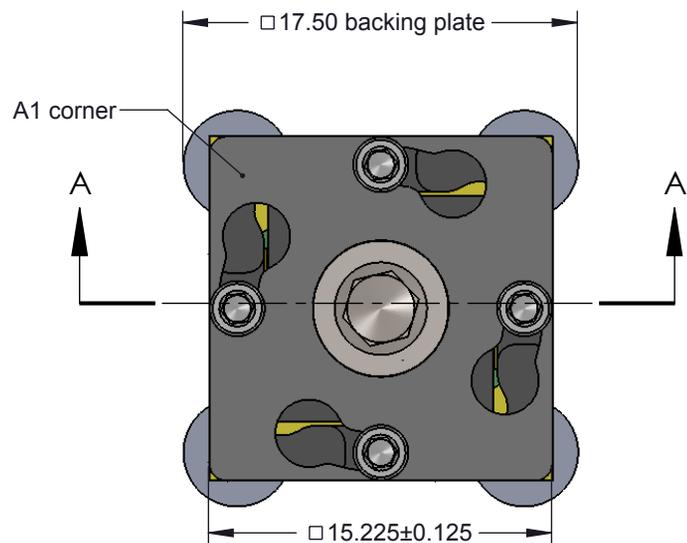
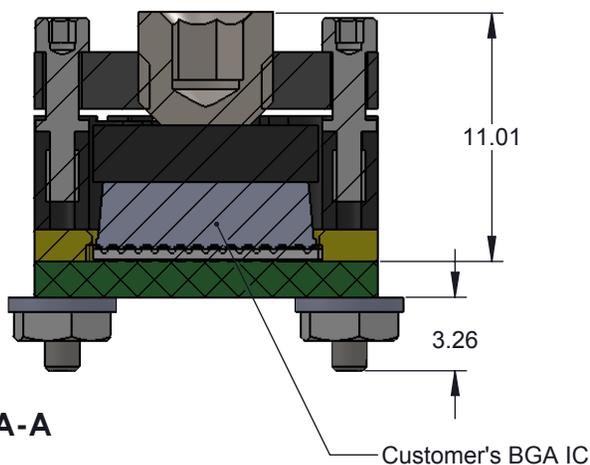


Swivel Lid socket - Silver ball matrix interconnect- Direct mount, solderless



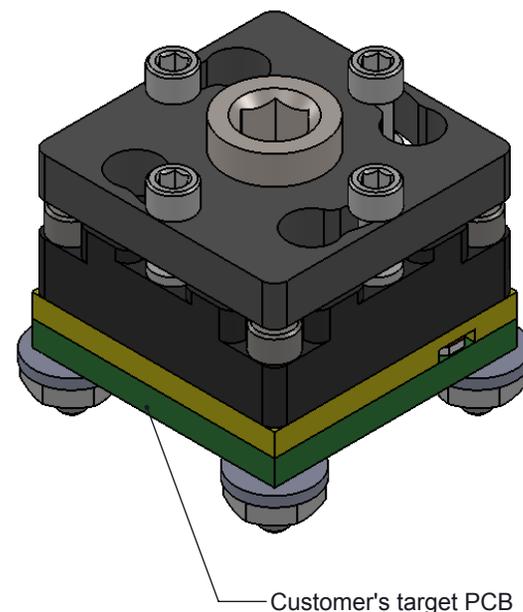
TOP VIEW



SECTION A-A

Features

- Direct mounts to target PCB with hardware.
- High speed, reliable connection
- Minimum real estate required
- Easily removalbe swivel socket lid



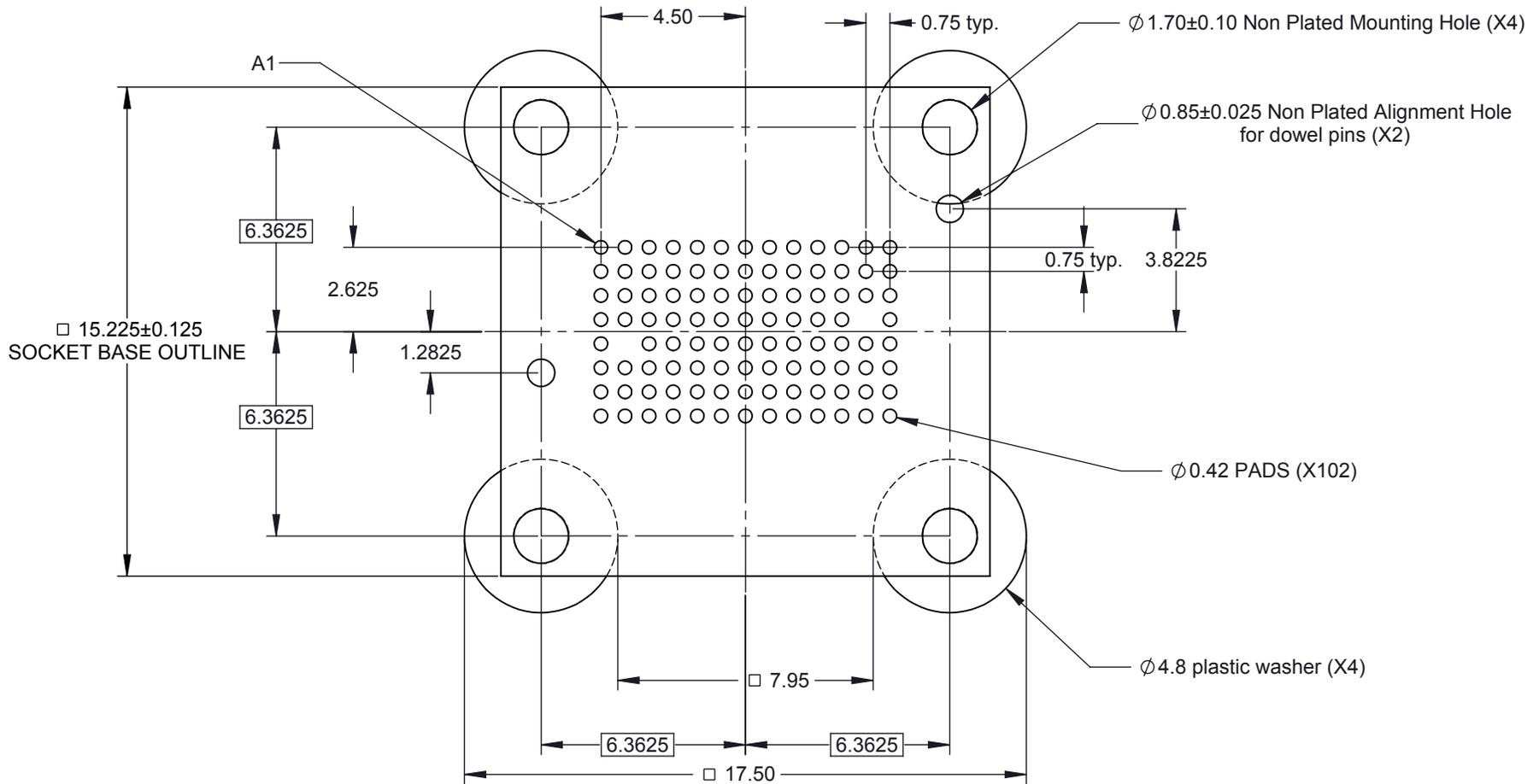
Description: SM socket for 9.75x6mm, 13x8 0.75mm pitch BGA102

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.0762\text{mm}$ [$\pm 0.003"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 SM-BGA-9007 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.53	STATUS: Released ENG: E. Smolentseva FILE: SM-BGA-9007 Dwg	SHEET: 1 OF 4 DRAWN BY: E. Smolentseva DATE: 2/10/2012	REV. B SCALE: 3:1

Recommended PCB Layout



Target PCB Recommendations

Total thickness: 0.864mm min.

Plating: Gold or Solder finish

PCB Pad height: same or higher than solder mask

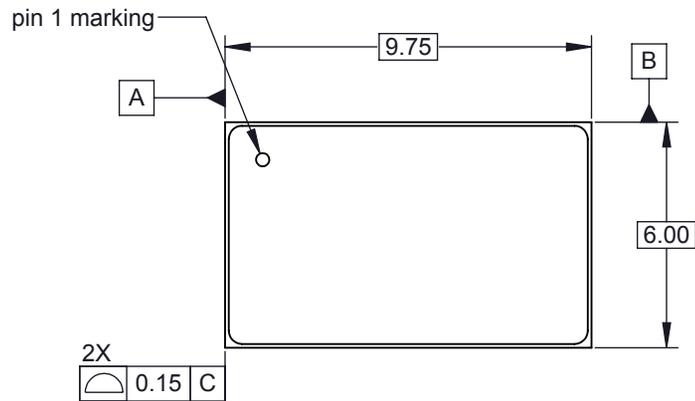
Description: SM socket for 9.75x6mm, 13x8 0.75mm pitch BGA102

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

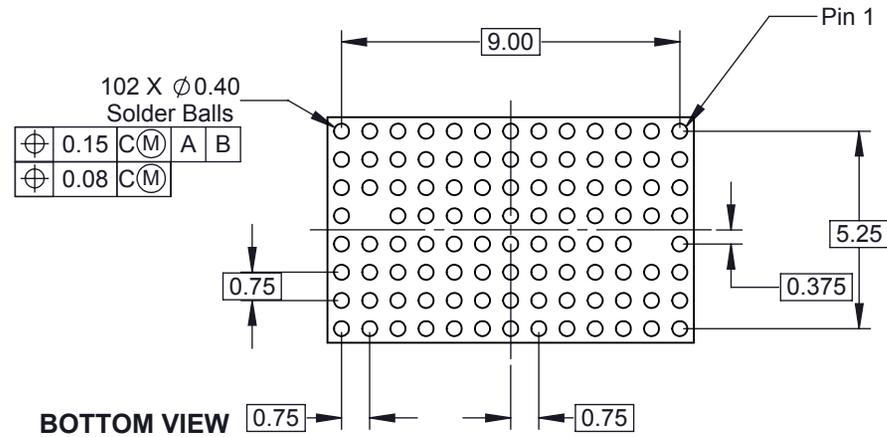
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

 SM-BGA-9007 Specification Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.53	STATUS: Released	SHEET: 2 OF 4	REV. B
		DRAWN BY: E. Smolentseva	SCALE: 5:1	
		FILE: SM-BGA-9007 Dwg	DATE: 2/10/2012	

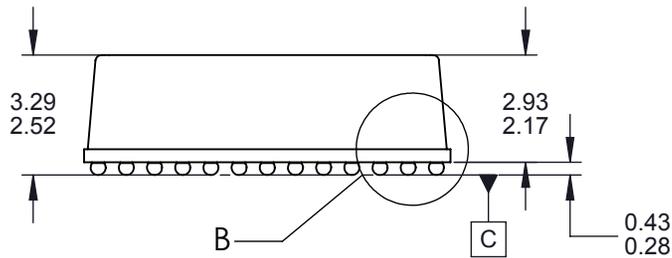
Compatible BGA IC



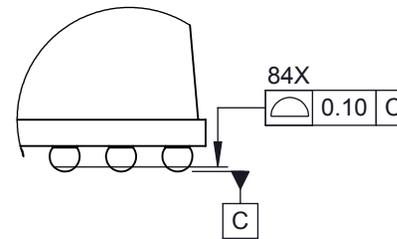
TOP VIEW



BOTTOM VIEW



SIDE VIEW



**DETAIL B
SCALE 10 : 1**

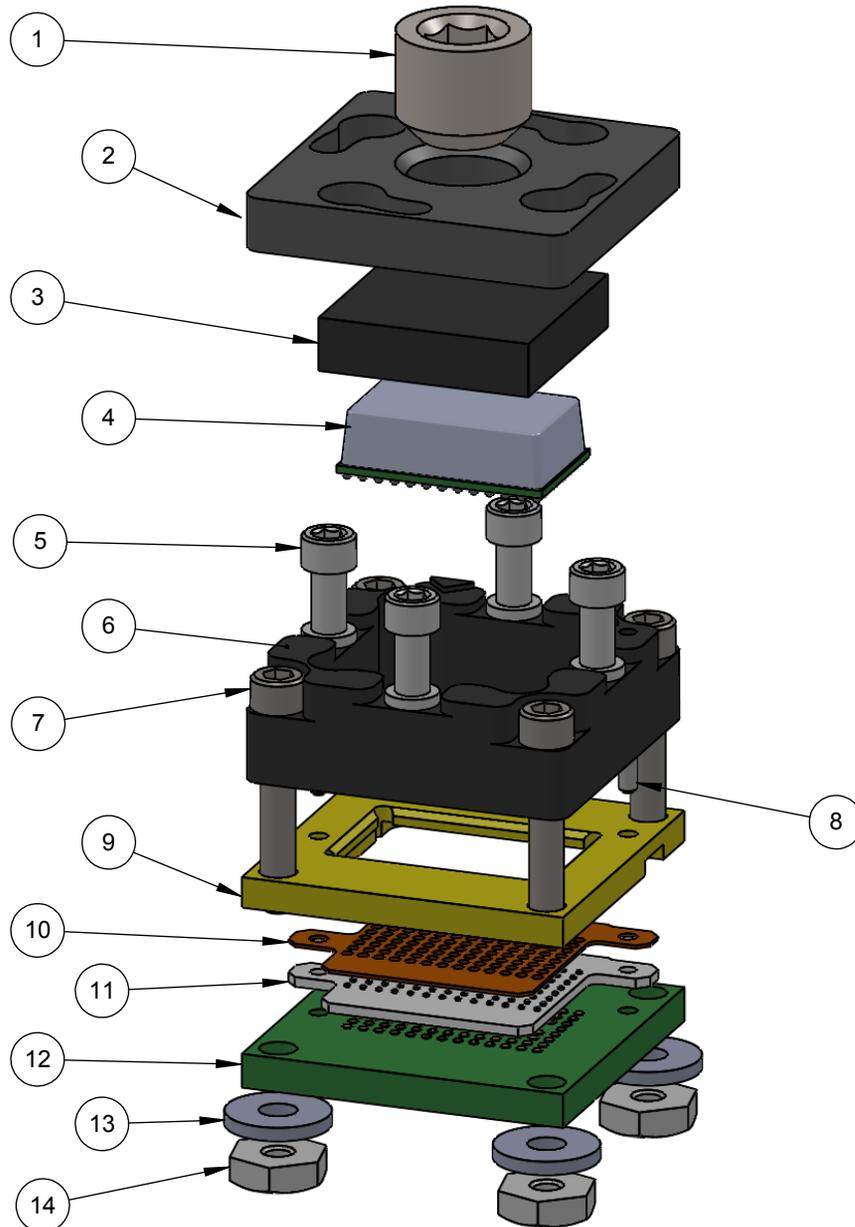
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

Description: IC package

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "]. Pitches (from true position) $\pm 0.0762\text{mm}$ [± 0.003 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>SM-BGA-9007 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 6.53</p>	STATUS: Released	SHEET: 3 OF 4	REV. B
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 5:1
		FILE: SM-BGA-9007 Dwg	DATE: 2/10/2012	



ITEM NO.	DESCRIPTION	Material
1	Compression Screw M6x1	Stainless Steel (18-8)
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	test chip	Material <not specified>
5	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
6	Socket Base	7075-T6 Aluminum Alloy
7	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
8	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
9	IC guide	Torlon 4203
10	BGA ball guide	Kapton Polyimide/Cirlex
11	SM interposer	Silmat
12	test pcb	FR4 High temp
13	Washer, #0 x .025", Nylon	Nylon 6/6
14	Nut, #0-80, SS	Stainless Steel (18-8)

Description: Skt, Insulation Plate, Pin Det

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "]. Pitches (from true position) $\pm 0.0762\text{mm}$ [± 0.003 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

Rev	Date	Initials	Description
A	02/10/12	ELS	Original
B	07/23/15	DH	Changed IC g=Guide material from Ultem to Torlon

 SM-BGA-9007 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.53	STATUS: Released ENG: E. Smolentseva FILE: SM-BGA-9007 Dwg	SHEET: 4 OF 4 DRAWN BY: E. Smolentseva DATE: 2/10/2012	REV. B SCALE: 3:1