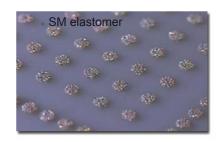
Silver Ball Matrix BGA Socket

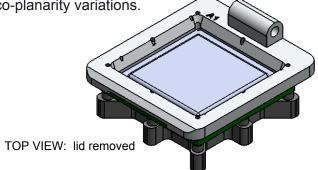
Features

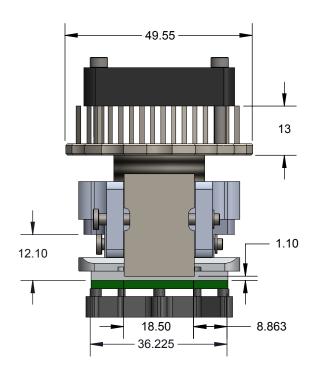
49.225



Wide temperature range (-55C to +150C).
Current capability is 4A per pin.
Over 40GHz bandwidth @-1dB for edge pins.
Low and stable contact resistance for reliable production yield.
Highly compliant to accommodate wide co-planarity variations.
Capacitance under 0.15pF

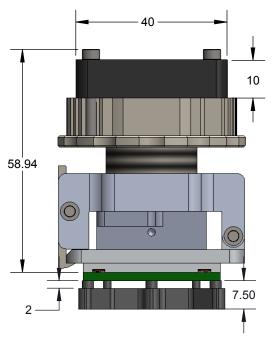


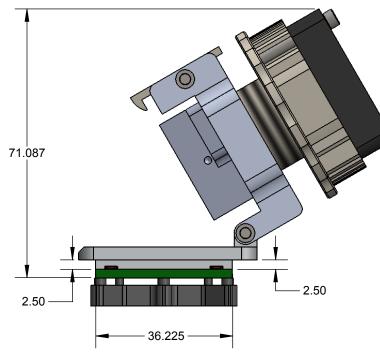




42.600

A1 corner



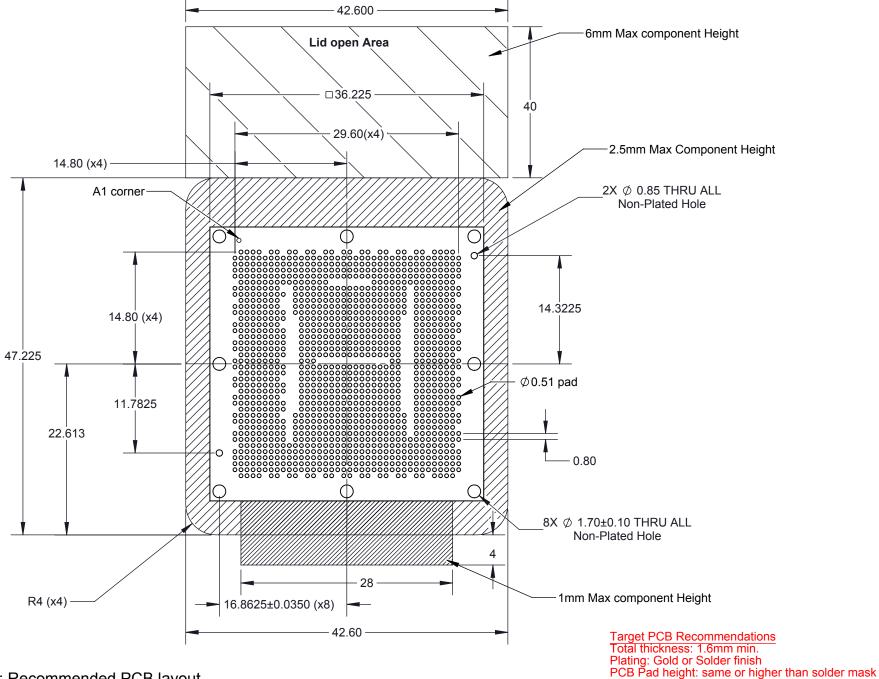


Description: Socket Drawing

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.

	SM-BGA-9024 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 1 OF 5	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 178.19	DRAWN BY: V. Panavala	SCALE: 1:1	
			FILE: SM-BGA-9024 Dwg	DATE: 2/6/2013	



Description: Recommended PCB layout

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

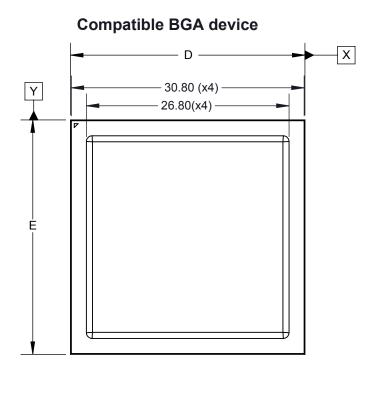
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

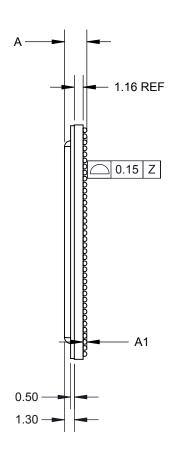
SM-BGA-9024 Drawing

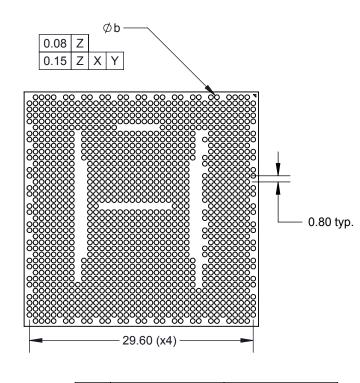
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified>

Finish: Weight: 178.19

STATUS: Released	SHEET: 2 OF 5	REV. A
DRAWN BY: V. Panavala	SCALE: 2:1	
FILE: SM-BGA-9024 Dwg	DATE: 2/6/2013	







M	MIN	MAX	
١	1.00	4.00	
1	0.5	0.6	
)	0.45	0.55	
)	31.00 BSC		
	31.00 BSC		
;	0.80		
	1	1.00 1 0.5 0 0.45 0 31.00 E 31.00	

38x38 Array

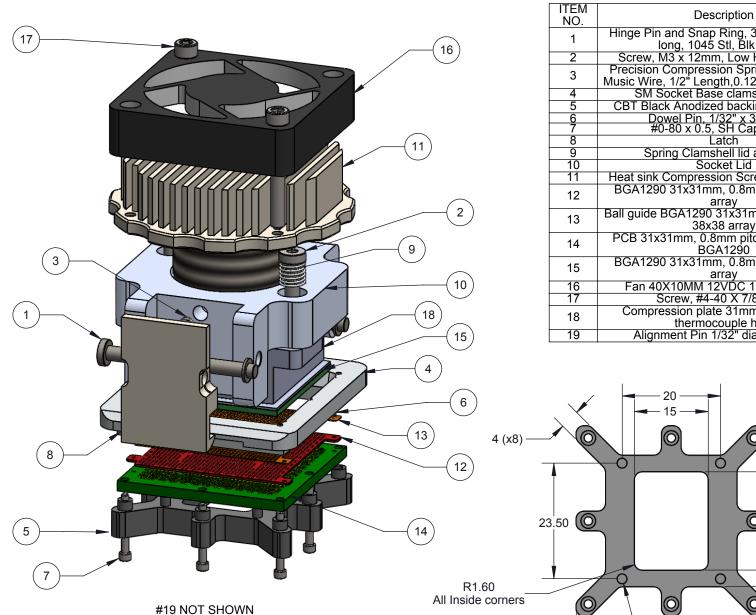
- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5. Parallelism measurement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

Description: Compatible BGA 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.

SM-BGA-9024 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 3 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 178.19	DRAWN BY: V. Panavala	SCALE: 1:1	
		FILE: SM-BGA-9024 Dwg	DATE: 2/6/2013	



1	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn			
2	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel			
3	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length,0.12" OD, .016" Wire	Zinc Plated Music Wire			
4	SM Socket Base clamshell 31mm	7075-T6 Aluminum Alloy			
5	CBT Black Anodized backing plate 31mm	7075-T6 Aluminum Alloy			
6 7	Dowel Pin, 1/32" x 3/16", SS #0-80 x 0.5, SH Cap Screw	Chrome Stainless Steel			
	#0-80 x 0.5, SH Cap Screw	Material <not specified=""></not>			
8	Latch	7075-T6 Aluminum Alloy			
9	Spring Clamshell lid assembly	Steel Music Wire			
10	Socket Lid	7075-T6 Aluminum Alloy			
11	Heat sink Compression Screw M24 threads	7075-T6 Aluminum Alloy			
12	BGA1290 31x31mm, 0.8mm pitch, 38x38	Silmat			
14	array	Siimat			
13	Ball guide BGA1290 31x31mm, 0.8mm pitch, 38x38 array	Kapton Polyimide/Cirlex			
14	PCB 31x31mm, 0.8mm pitch, 38x38 array BGA1290	FR4			
15	BGA1290 31x31mm, 0.8mm pitch, 38x38 array	FR4 Standard			
16	Fan 40X10MM 12VDC 1.6W 9.9CFM	Material <not specified=""></not>			
17	Screw, #4-40 X 7/8", Cap	Alloy Steel			
18	Compression plate 31mm no shift with thermocouple hole	7075-T6 Aluminum Alloy			
19	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel			
20					
		orners			

6 (x8)

Insulation Plate Specification

- Ø2 (x4) posts □ 38.725 —— Material

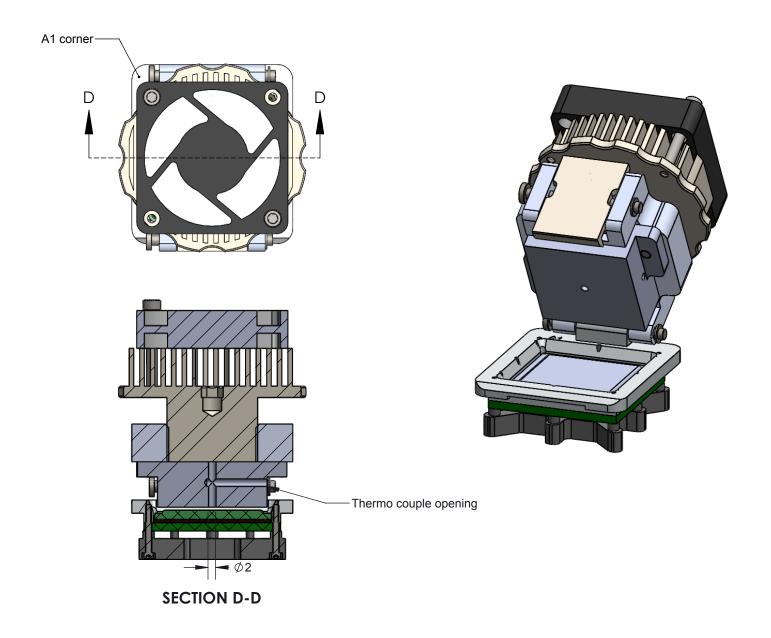
 \emptyset 3.50

Description: Socket assembly

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.

SM-BGA-9024 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 4 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: REQ. ENG. INITIALS	SCALE: 1.3:1	
		FILE: SM-BGA-9024 Dwg	DATE: 2/6/2013	



Description: Socket

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.

SM-BGA-9024 Drawing Material: Material <not specified> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Weight: 178.19 Material <not specified> Finish: Weight: 178.19 STATUS: Released DRAWN BY: V. Panavala FILE: SM-BGA-9024 Dwg DATE: 2/6/2013