Silver Ball Matrix Socket

32.225 49.225 45.220 Recommended torque = 8 in lb.

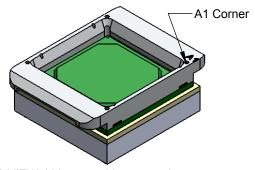


SM elastomer

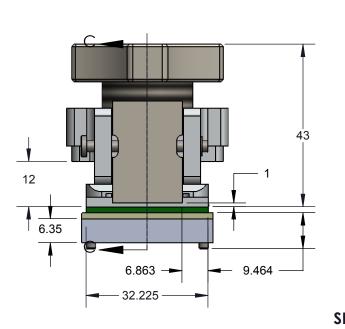
Features

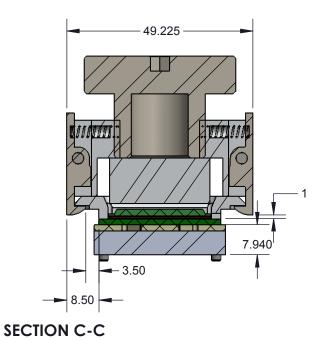
- Wide temperature range (-55C to +150C).

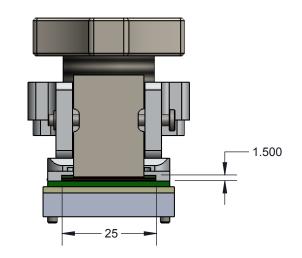
- Current capability is 4A per pin.
 Over 40GHz bandwidth @-1dB for edge pins.
 Low and stable contact resistance for reliable production yield.
 Highly compliant to accommodate wide co-planarity variations.
- Capacitance under 0.15pF



ISO VIEW: Lid asssembly removed







Description: Socket Drawing

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

 $\frac{Tolerances:}{Lo.0254mm} \ [\pm 0.001"], Pitches (from true position) \pm 0.0762mm \ [\pm 0.003"], substrate thickness tolerance \pm 10\%, all other tolerances \pm 0.127mm \ [\pm 0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.$

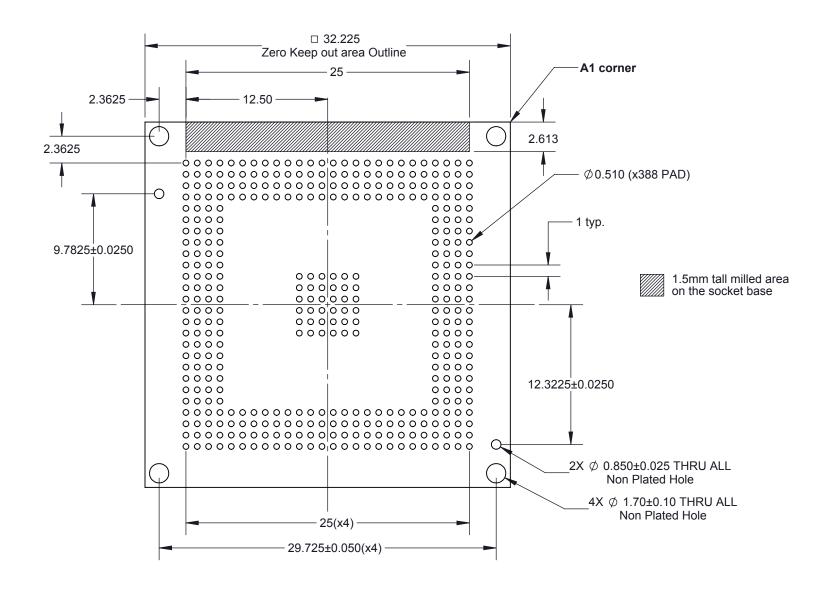
SM-BGA-9022 Drawing				
•	©2015 Ironwood Electron Tele: (800) 404-020 www.ironwoodelectronic			

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Material: Material <not specified> Finish:

Weight: 154.62

STATUS: Released	SHEET: 1 OF 4	REV. B
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 1:1
FILE: SM-BGA-9022 Dwg	DATE: 2/6/2013	



Note: BGA pattern is symmetrical with respect to the mounting holes.

Description: Recommended PCB layout

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

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

SM-BGA-9022 Drawing

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Material: Material <not specified> Finish:

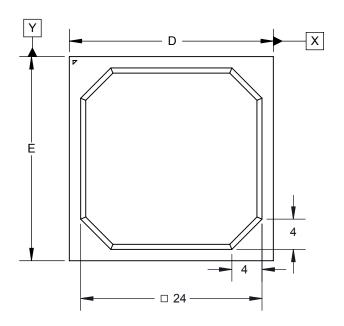
Weight: 154.62

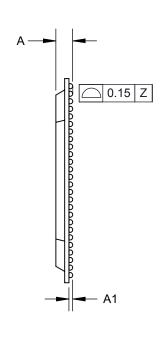
STATUS: Released SHEET: 2 OF 4 REV. B ENG: V. Panavala DRAWN BY: V. Panavala SCALE: 3:1 FILE: SM-BGA-9022 Dwg DATE: 2/6/2013

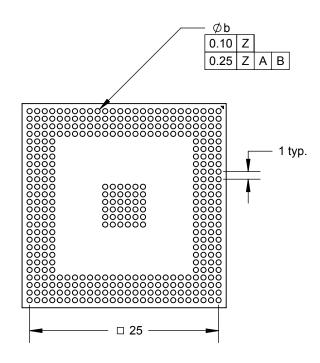
Target PCB Recommendations Total thickness: 1.5mm min. Plating: Gold or Solder finish

PCB Pad height: same or higher than solder mask

Compatible BGA device







DIM	MIN	MAX
Α	1.00	3.00
A1	0.40	0.60
b	0.50	0.70
D	26.80	27.20
E	26.80	27.20
е	1.00	

Ironwood Pacakage Code: BGA388B

1. Dimensions are in millimeters.

26x26 Array

- 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.

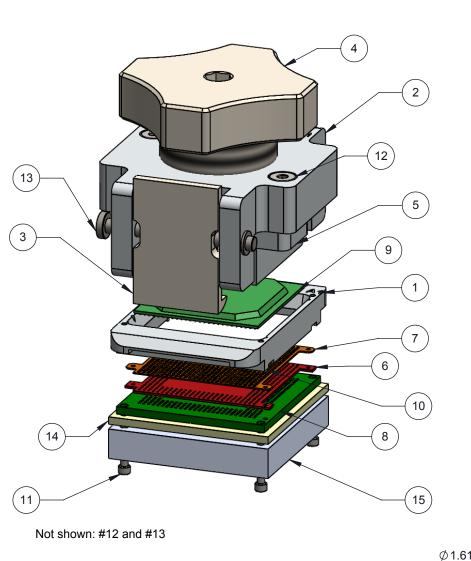
SM-BGA-9022 Drawing



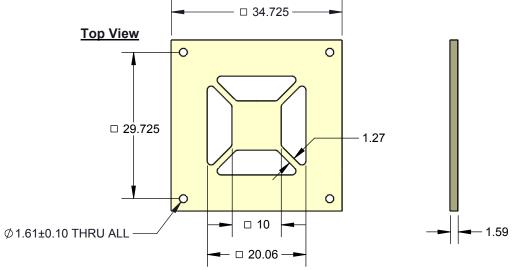
Material: Material <not specified> Finish:

Weight: 154.62

STATUS: Released	SHEET: 3 OF 4	REV. B
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 1:1
FILE: SM-BGA-9022 Dwg	DATE: 2/6/2013	



ITEM NO.	DESCRIPTION	Material	
1	SM Socket Base clamshell 27mm double latch	7075-T6 Aluminum Alloy	
2	Clamshell lid Double latch 27mm IC	7075-T6 Alumium Alloy	
3	Latch	7075-T6 Aluminum Alloy	
4	Compression Screw	7075-T6 Aluminum Alloy	
5	Compression Plate 27mm IC	7075-T6 Aluminum Alloy	
6	Silmat BGA388B 27x27mm, 26x26, 1mm pitch	Silmat	
7	Ball guide BGA676 27x27mm, 26x26, 1mm pitch	Kapton Polyimide/Cirlex	
8	PCB BGA388B 26x26 arr 1mm pitch	FR4	
9	BGA388B 27mm 1mm pitch 26x26 array	FR4 Standard	
10	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel	
11	#0-80 x 0.5, SH Cap Screw	Alloy Steel	
12	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel	
13	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn	
14	Insulation Plate 27mm IC	FR4	
15	SBT Ni plt backing plt 27mm IC	7075-T6 Aluminum Alloy	
16	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire	
17 Spring Clamshell lid assembly		Steel Music Wire	
	•		



Insulation Plate Specification

Description: Socket assembly

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

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

Rev	Date	Initials	Description
Α	2/26/13	VP	Original
В	7/29/15	GL	Recommended Torque 5 in. lb. chg'd to 8 in. lb.

SM-BGA-9022 Drawing



©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish:

Weight: 154.62

	STATUS: Released		SHEET	: 4 OF 4	REV. B
	ENG: V. Panavala		DRAWI	N BY: V. Panavala	SCALE: 1.3:1
FILE: SM-BGA-9022 Dwg		DATE:	2/6/2013		