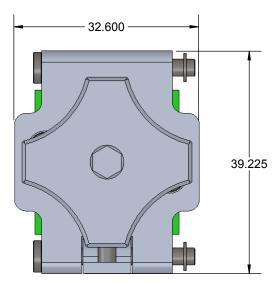
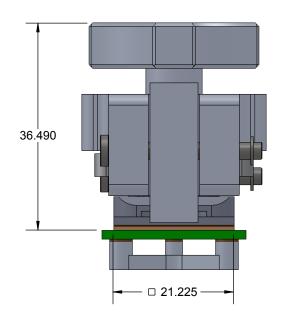
GHz BGA Socket - Direct mount, solderless

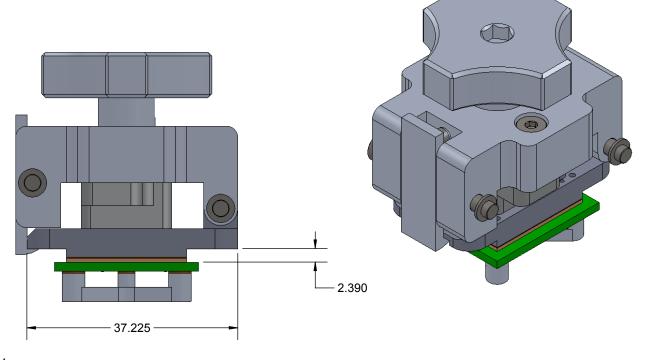


Features

- 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
 Recommended Torque: 1.3in-lbs



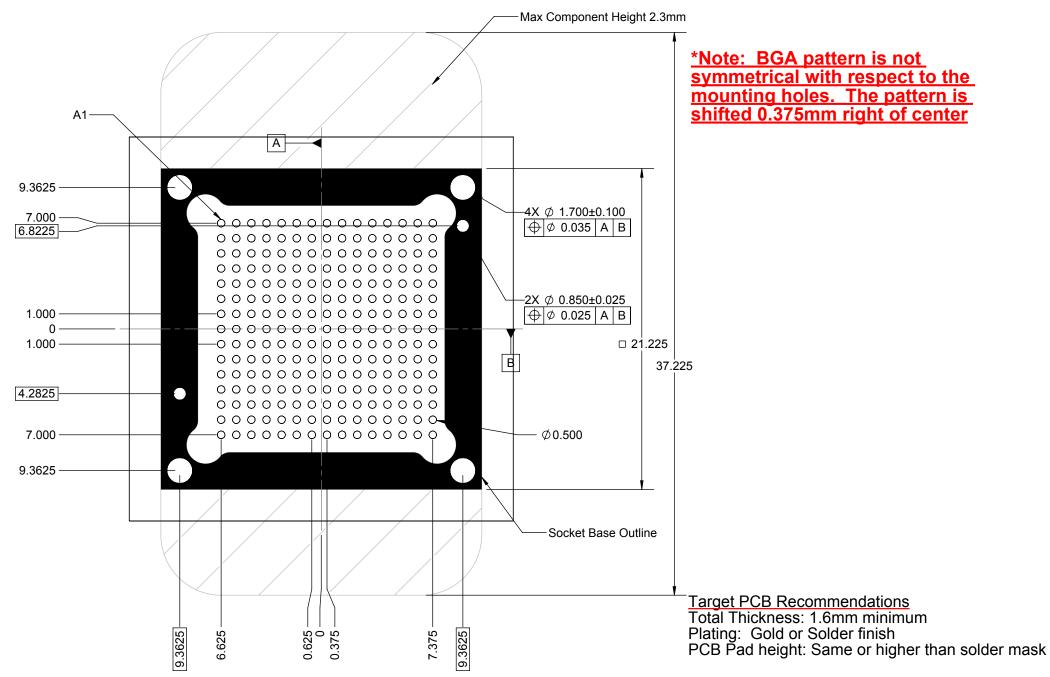


Description: CG-BGA225 16x16mm IC 15x15array

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

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

CG-BGA-4021 Drawing	Finish: N/A Weight: 71.13	STATUS: Released	SHEET: 1 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: B. Fedde	DRAWN BY: M. Raske	SCALE: 3:2
		FILE: CG-BGA-4021 Dwg	DATE: 07/15/2014	



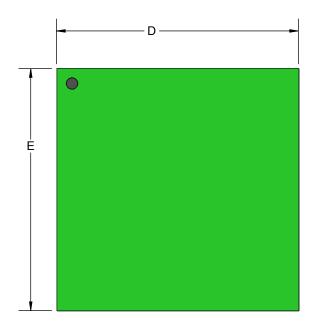
Description: Recommended PCB Layout

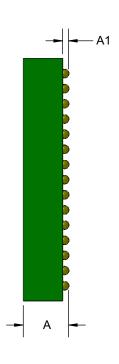
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

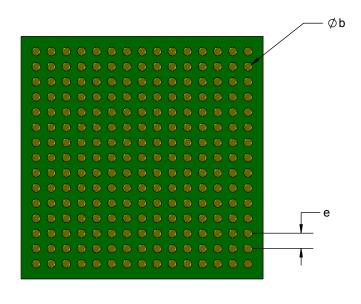
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

	CG-BGA-4021 Drawing	Finish: N/A Weight: 71.13	STATUS: Released	SHEET: 2 OF 4	REV. A
•	Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: B. Fedde	DRAWN BY: M. Raske	SCALE: 4:1
	www.ironwoodelectronics.com		FILE: CG-BGA-4021 Dwg	DATE: 07/15/2014	

Ironwood Package code: BGA225K







DIM	MIN	MAX		
Α		3.0		
A1	0.40	0.60		
b	0.45	0.7		
D	15.90	16.10		
Е	15.90	16.10		
е	1.0 BSC			

Dimensions are in millimeters.

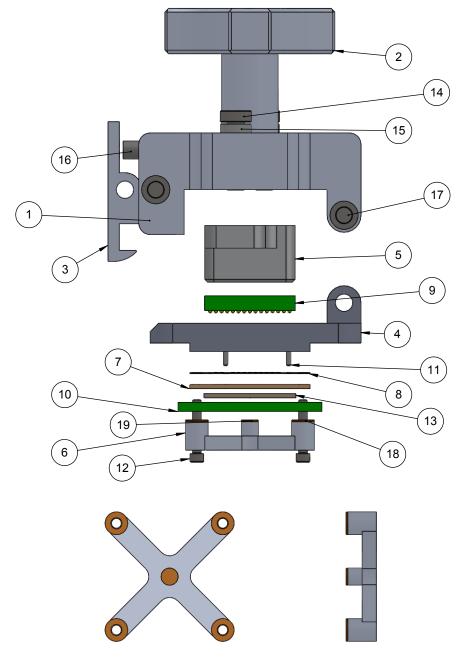
- 1. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 2. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 3. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 4. Parallelism measurement shall exclude any effect of mark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

Description: Compatible 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.

CG-BGA-4021 Drawing	Material: N/A	STATUS: Released	SHEET: 3 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 71.13	ENG: B. Fedde DRAWN BY: M. Raske SCALE	SCALE: 4:1	
www.ironwoodelectronics.com		FILE: CG-BGA-4021 Dwg	DATE: 07/15/2014	



Description: Socket, Backing Plate Detail

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.



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 71.13

	140.						
	1	Clam sh	ell lid for 17mm IC	7075-T6 Aluminum Allo			
	2	M10 C	omression Screw	70	75-T6 Aluminum Alloy		
Ì	3	Clo	amshell Latch	7075-T6 Aluminum Al			
	4	CG Socket Base 16.325mm Pocket 18.725mm Holes		70	75-T6 Aluminum Alloy		
	5		nshell 16mm IC npression Plate	7075-T6 Alumium Alloy			
	6	16x16mm Clamshell Backing Plate 7075-T6 Alu			75-T6 Aluminum Alloy		
	7	Elastom	er Guide 16mm IC		Ultem 1000		
	8	Ball Guid	de BGA 225 1.0mm pitch	Ka	apton Polyimide/Cirlex		
	9	BG <i>A</i> 16x16	x 225 Test Chip mm 15x15 array	M	Material <not specified=""></not>		
	10	BG/	A 225 Test PCB		FR4 Standard		
	11	Dowel P	in, 1/32" x 3/16", SS	С	hrome Stainless Steel		
	12	#0-80 X CAP SCR	(.375 LG, SOC HD PEW, ALLOY STL, BLK OXIDE	Alloy Steel			
	13		75mm thick 0.1mm pitch 3 deg angled elastomer Silicon Rubbe		Silicon Rubber		
	14	Screw, M3 x 12mm, Low Head Cap, SS			18-8 Stainless Steel		
	15	Spring Clamshell lid assembly			Steel Music Wire		
	16	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire		Zi	Zinc Plated Music Wire		
	17	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS		Stainless Steel (ferritic)			
	18	Insulating washer, 4mm OD.		Kapton Polyimide/Cirlex			
19 Insulat			ing washer, 3mm OD.	Kapton Polyimide/Cirlex			
ased			SHEET: 4 OF 4		REV. A		
Э			DRAWN BY: M. Raske SCALE: 3:2		SCALE: 3:2		
-4	021 Dwg		DATE: 07/15/2014				

DESCRIPTION

Material

ITEM

NO.

STATUS: Release	sed		SHEET: 4 OF 4	REV. A
ENG: B. Fedde		DRAWN BY: M. Raske	SCALE: 3:2	
FILE: CG-BGA-4	021 Dwg		DATE: 07/15/2014	