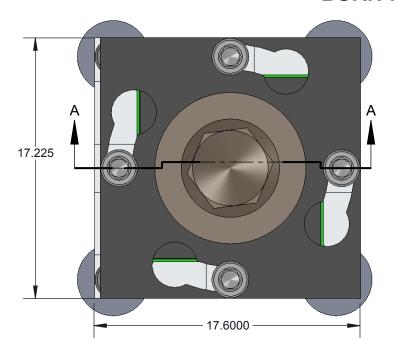
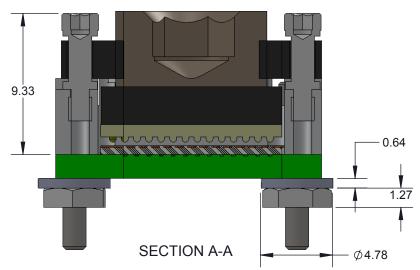
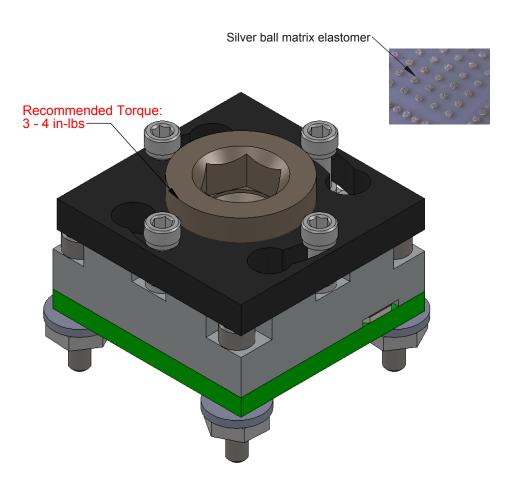
SM-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATION**





Features

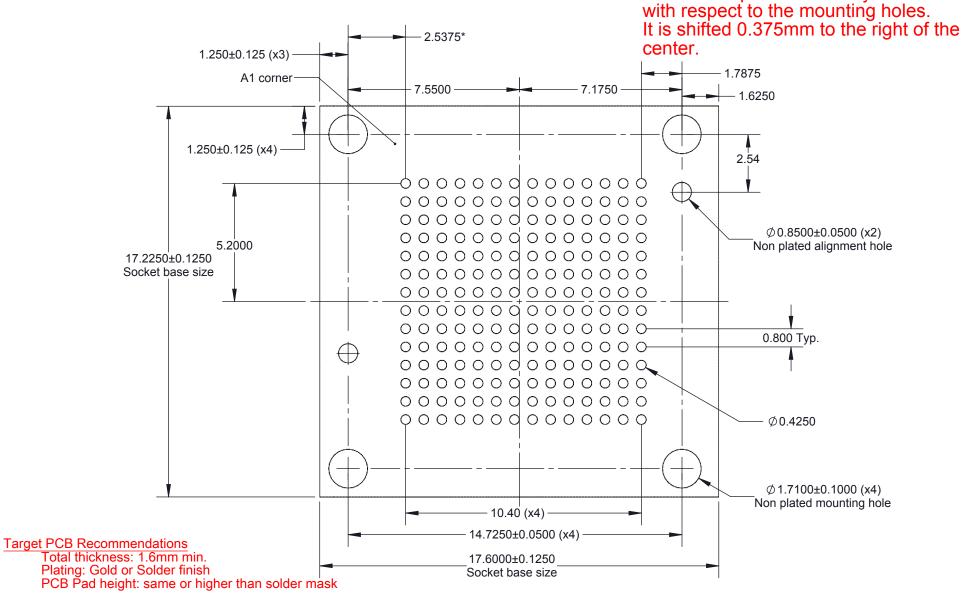
- Wide temperature range (-55C to +150C).
 Current capability is 4A per pin at 14C temperature rise.
 Over 40GHz bandwidth @-1dB for edge pins
 Low and stable contact resistance for reliable production yield.
- Self inductance under 0.21nH.
- Easily removable swivel socket lid



DESCRIPTION: SM-BGA196 12X12mm 14x14 array 0.8mm pitch

Primary dimension units are millimeters, Secondary dimension units are [inches]. Tolerances: diameters ±0.03mm [±0.001"], all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-BGA-9021 Dray	wing	STATUS: Released	SHEET: 1 of 4	REV. A
Ironwood Electronics, Inc. WEIGHT: Tele: (800) 404-0204 MATERIAL		DRAWN BY: S. Huang	SCALE: 4:1	
www.ironwoodelectronics.com FINISH:		File: SM-BGA-9021	DATE: 11/16/12	



Note: BGA pattern is not symmetrical

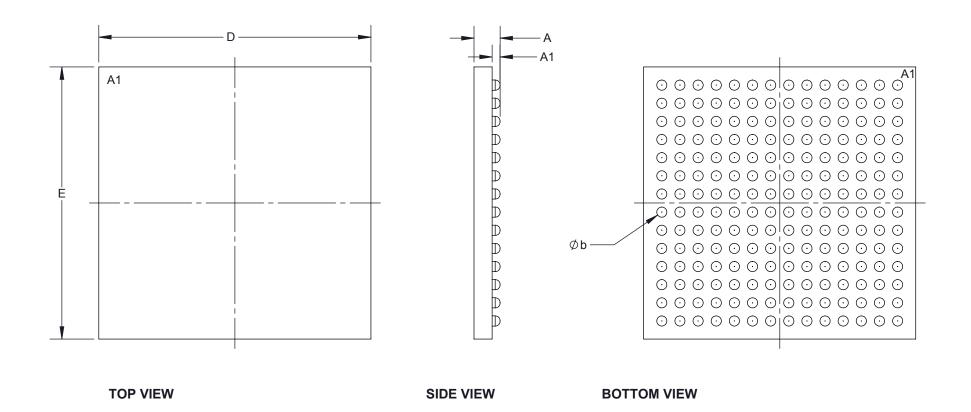
DESCRIPTION: Recommended PCB Lavout

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

Tolerances: diameters ±0.03mm [±0.001"],all other tolerances ±0.025mm [±0.001"] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-BGA-9021 Drawing		STATUS: Released	SHEET: 2 of 4	REV. A	
A	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com WEIGHT: MATERIAL: FINISH:		DRAWN BY: S. Huang	SCALE: 6:1	
		File: SM-BGA-9021	DATE: 11/16/12		





Ironwood Package Code: BGA196E

- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5-1994.

B.\ Dimension b is measured at the maximum solder bll diameter, parallel to datum plane Z.

Datum Z (seating plane) is defined by the spherical crowns of the solder balls.

Parallelism measurement shall exclude any effect of mark on top surface of package.

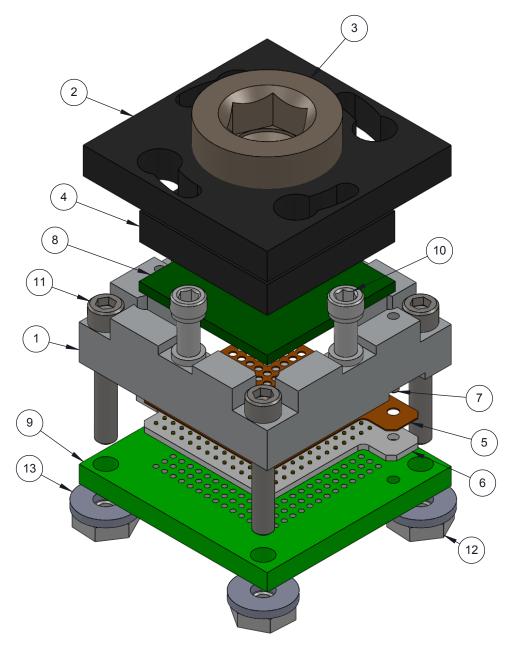
DIM	MIN	MAX	
Α		1	
A1	(0.3	
b	0.4		
D	12.00		
Е	12.00		
е	0.80		
Pin	14 x 14 array		

DESCRIPTION: Compatible BGA

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

Tolerances: diameters ±0.03mm [±0.001"],all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-BGA-9021 Drawing		STATUS: Released	SHEET: 3 of 4	REV. A	
	Ironwood Electronics, Inc. Tele: (800) 404-0204	WEIGHT: MATERIAL:	DRAWN BY: S. Huang	SCALE: 6:1	
	www.ironwoodelectronics.com FINISH:	File: SM-BGA-9021	DATE: 11/16/12		



DESCRIPTION	Material
SM Socket Base for 12x12mm IC	7075-T6 Aluminum Alloy
Socket Lid 12mm	7075-T6 Alumium Alloy
Compression Screw M10	7075-T6 Alumium Alloy
Compression Plate	7075-T6 Aluminum Alloy
Ball Guide, SM, 12mm, 14x14 array	Kapton Polyimide/Cirlex
SM Contactor	Silmat
Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
BGA196 ,0.8mm Pitch	FR4
Target PCB BGA196	Custom Plastic
#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
Nut, #0-80, SS	Stainless Steel (18-8)
Washer, #0 x .025", Nylon	Nylon 6/6
	SM Socket Base for 12x12mm IC Socket Lid 12mm Compression Screw M10 Compression Plate Ball Guide, SM, 12mm, 14x14 array SM Contactor Dowel Pin, 1/32" x 3/16", SS BGA196 ,0.8mm Pitch Target PCB BGA196 #0-80 Shoulder Screw, 0.062" thread length #0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE Nut, #0-80, SS

Rev	Date	miliais	Description
Α	-	-	Original

DESCRIPTION: Socket Specification

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

Tolerances: diameters ± 0.03 mm [± 0.001 "], all other tolerances ± 0.13 mm [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-BGA-9021 Drawing			STATUS: Released	SHEET: 4 of 4	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204	WEIGHT:	DRAWN BY: S. Huang	SCALE: 4:1	
	www.ironwoodelectronics.com	MATERIAL: FINISH:	File: SM-BGA-9021	DATE: 11/16/12	