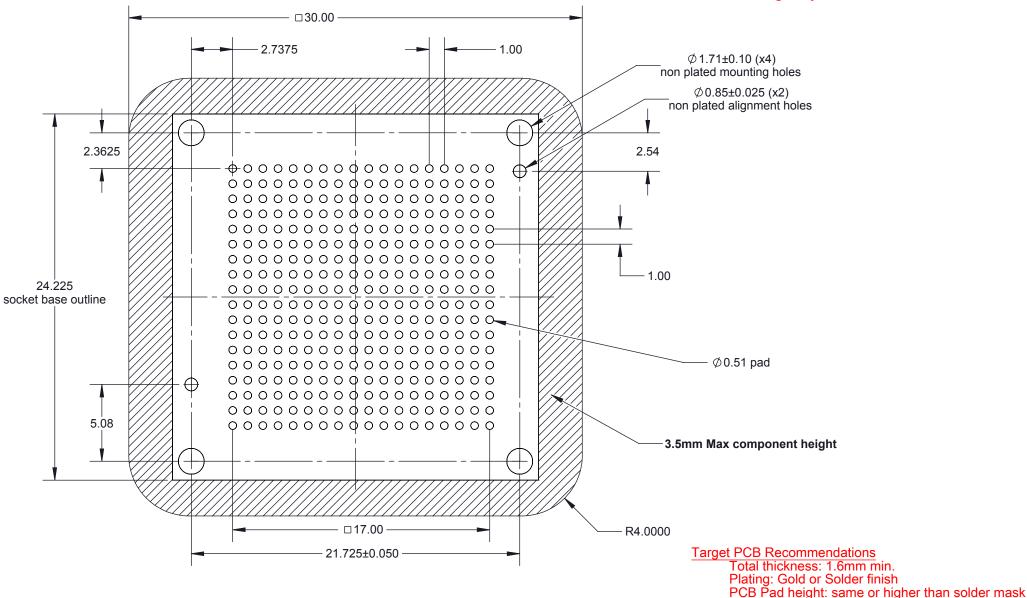


Description: Socket Specification

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

SM-BGA-9019 Drawing	Finish: N/A Weight: 61.00	STATUS: Released	SHEET: 1 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: V. Panavala	SCALE: 3:2	
		FILE: SM-BGA-9019 Dwg	DATE: 11/15/2012	

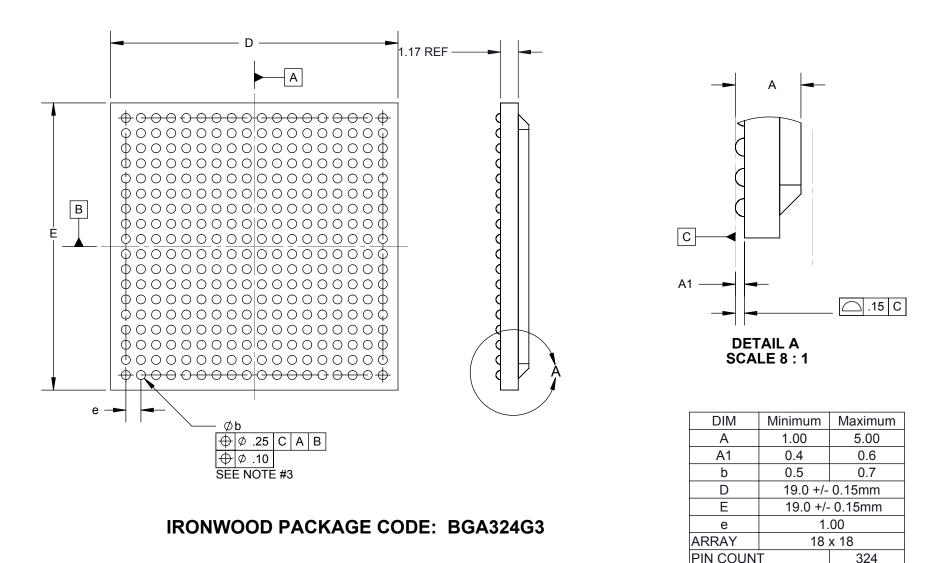
Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted to the right by 0.375mm



Description: Recommended PCB Layout

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

SM-BGA-9019 Drawing	Material: N/A Finish: N/A Weight: 61.00	STATUS: Released	SHEET: 2 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: V. Panavala	SCALE: 4:1	
		FILE: SM-BGA-9019 Dwg	DATE: 11/15/2012	



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.

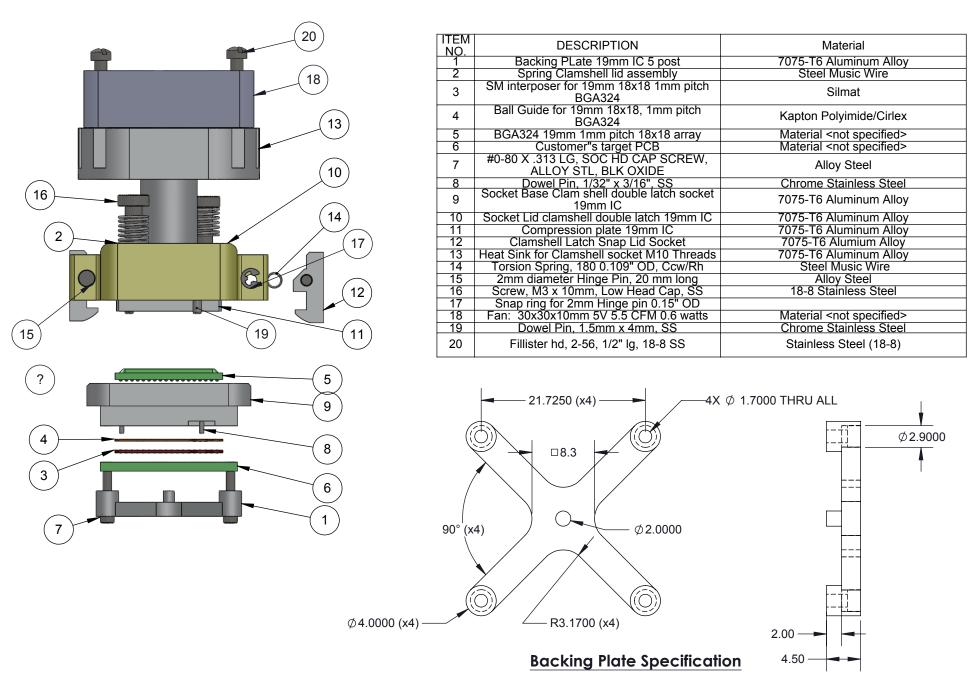
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.

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

Description: Compatible BGA

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

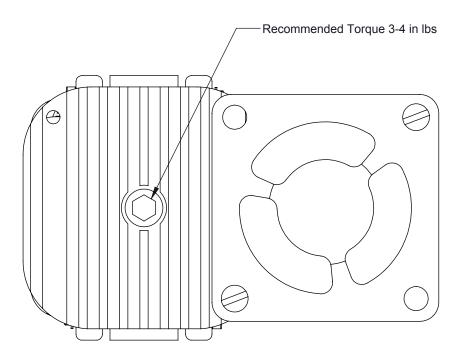
SM-BGA-9019 Drawing	Finish: N/A Weight: 61.00	STATUS: Released	SHEET: 3 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: V. Panavala	SCALE: 4:1	
		FILE: SM-BGA-9019 Dwg	DATE: 11/15/2012	

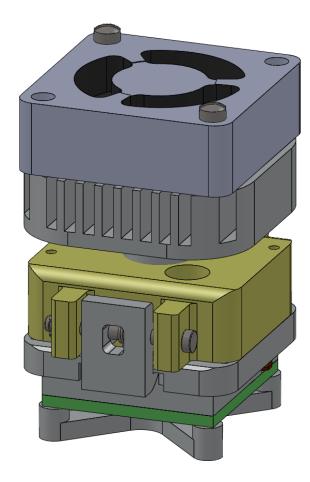


Description: Socket Assy, Insulation Plate

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

SM-BGA-9019 Drawing	Finish: N/A Weight: 61.00	STATUS: Released	SHEET: 4 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: V. Panavala	SCALE: 1:1	
		FILE: SM-BGA-9019 Dwg	DATE: 11/15/2012	





User Instructions:

- Using a flat screw driver remove a fan screw and turn the fan 90 degrees clockwise to access the hex slot on the heat sink screw. Using a torque driver apply 3-4 in lbs torque. Rotate the fan or the original position and fasten the screw. 1.
- 2. 3.

Description: User instructions

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

SM-BGA-9019 Drawing	Finish: N/A Weight: 61.00	STATUS: Released	SHEET: 5 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: V. Panavala	SCALE: 2:1	
		FILE: SM-BGA-9019 Dwg	DATE: 11/15/2012	