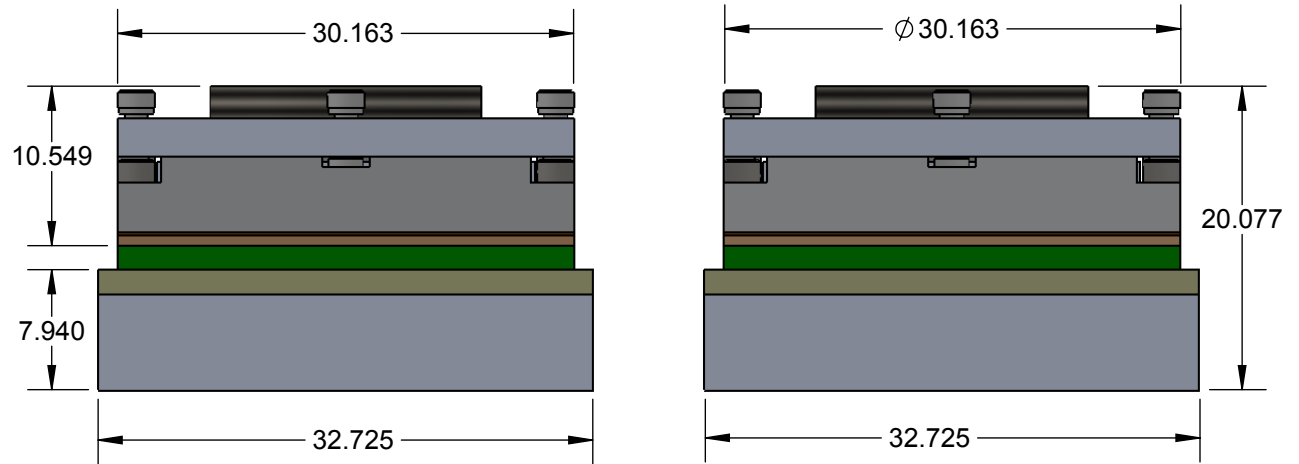
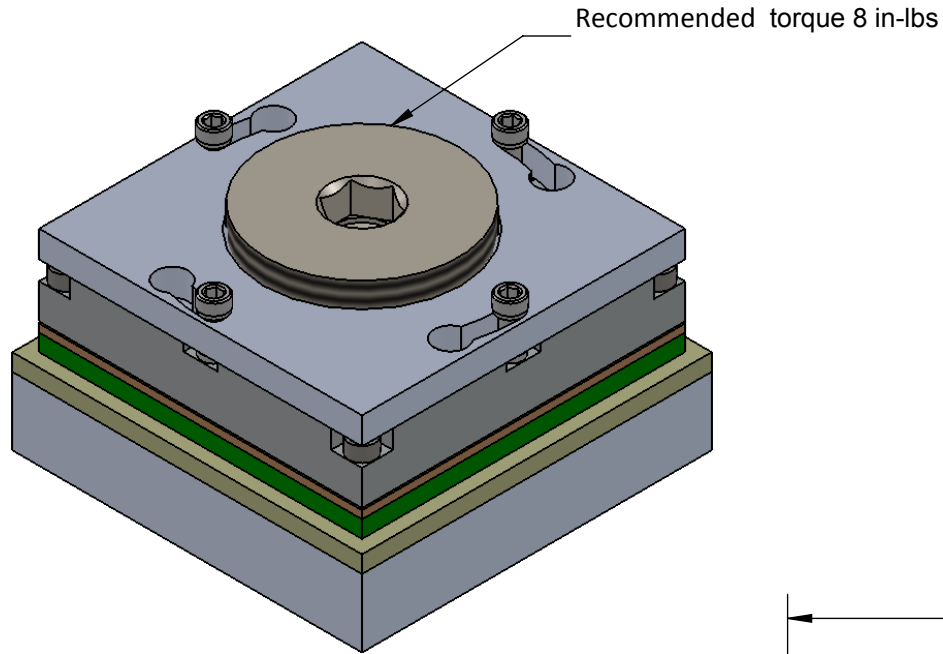


SG-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR TEST APPLICATIONS

FEATURES:


- Wide temperature range (-35C to +100C)
- Directly mounts to target PCB with hardware
- Minimum real estate required
- Compression Plate distributes force evenly
- Easily removable swivel top lid



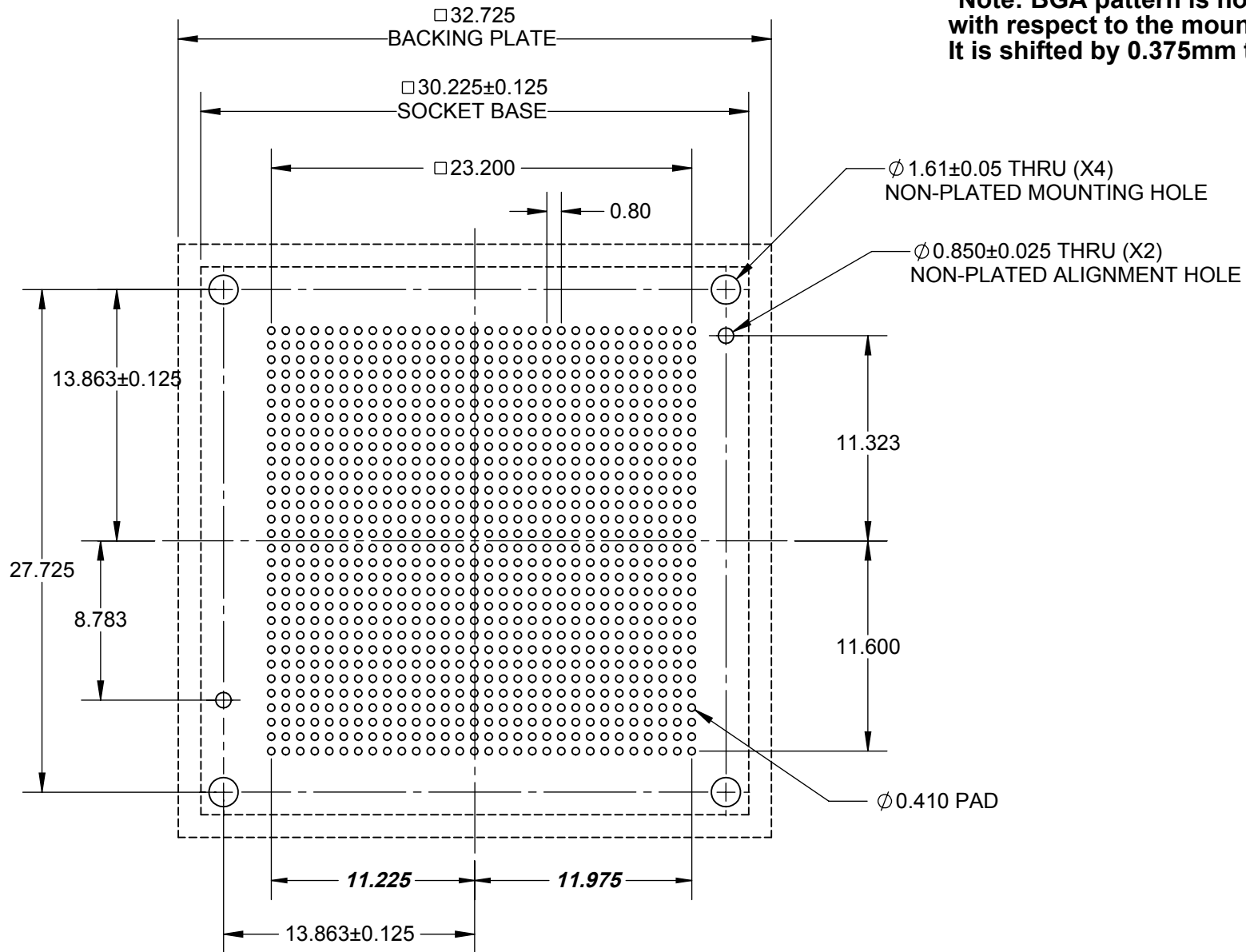
Description: SG-BGA Socket

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

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

 SG-BGA-6382 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 40.80	STATUS: Released ENG: M.A. Fedde FILE: SG-BGA-6382 Dwg	SHEET: 1 OF 4 DRAWN BY: D. Hauer DATE: 03/21/2013	REV. A SCALE: 2:1


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



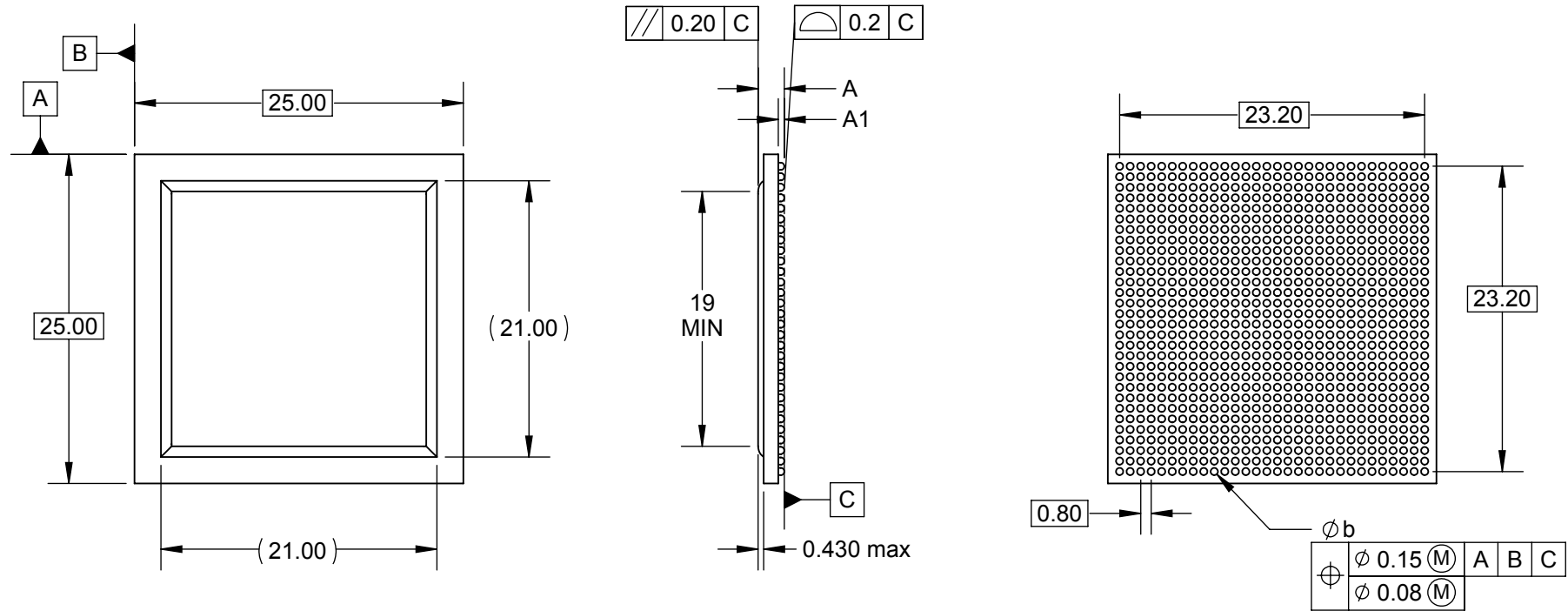
Description: Recommended PCB Layout

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

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

 SG-BGA-6382 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 40.80	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: M.A. Fedde	DRAWN BY: D. Hauer	SCALE: 3:1
		FILE: SG-BGA-6382 Dwg	DATE: 03/21/2013	

Ironwood Package Code : BGA900B




⊕	$\phi 0.15$ (M)	A	B	C
	$\phi 0.08$ (M)			

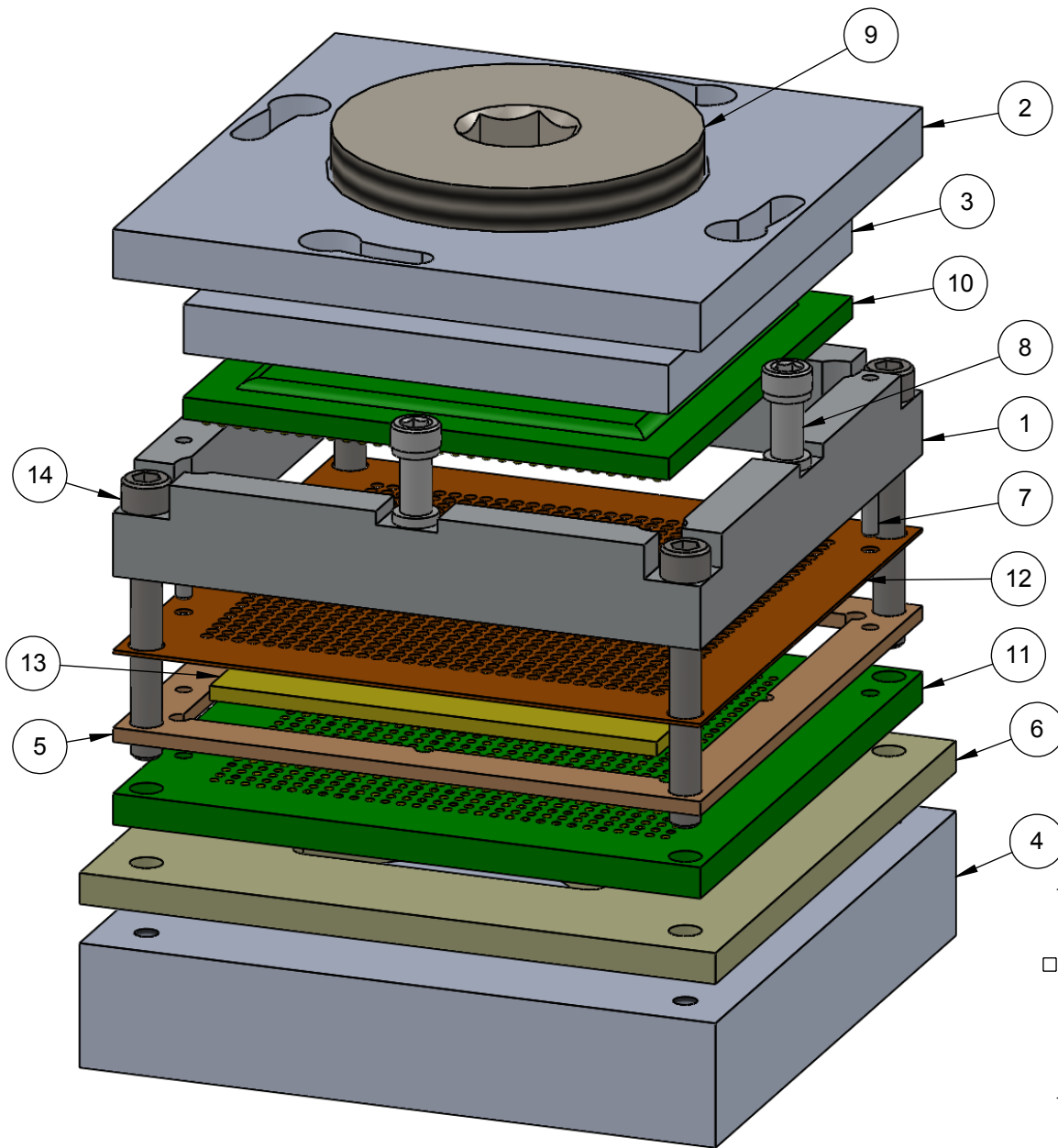
DIM	Minimum	Maximum
A	1.78	2.04
A1	0.35	0.45
b	0.45	0.55
e	0.8 BSC	
ARRAY	30 x 30	
PIN COUNT	900	

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.

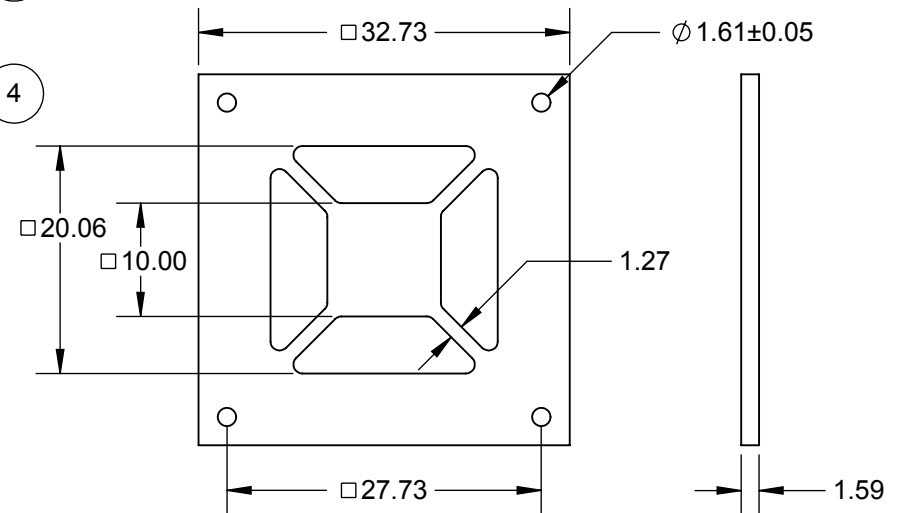
Description: Compatible BGA

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.03\text{mm}$ [± 0.001 "], Pitches (from true position) $\pm 0.025\text{mm}$ [± 0.001 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

 SG-BGA-6382 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 40.80	STATUS: Released ENG: M.A. Fedde FILE: SG-BGA-6382 Dwg	SHEET: 3 OF 4 DRAWN BY: D. Hauer DATE: 03/21/2013	REV. A SCALE: 2:1



ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid, 25x25mm IC size	7075-T6 Aluminum Alloy
3	Compression Plate, 25x25mm IC	7075-T6 Aluminum Alloy
4	Backing Plate 25x25mm	7075-T6 Aluminum Alloy
5	Elastomer Guide 25mm IC	Ultem 1000
6	Insulation Plate 25x25mm IC	FR4
7	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
8	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
9	Compression Screw, M18	7075-T6 Aluminum Alloy
10	Test Chip	Material <not specified>
11	Test PCB	Material <not specified>
12	Ball Guide	Kapton Polyimide/Cirlex
13	23mm square 0.75mm thick 0.1mm pitch 63 deg angled elastomer	Shin-etsu Elastomer
14	#0-80 x 0.5, SH Cap Screw	Alloy Steel



Description: Socket Assy, Insulation Plate

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

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

SG-BGA-6382 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 40.80

STATUS: Released

ENG: M.A. Fedde

FILE: SG-BGA-6382 Dwg

SHEET: 4 OF 4

DRAWN BY: D. Hauer

DATE: 03/21/2013

REV. A

SCALE: 3:1