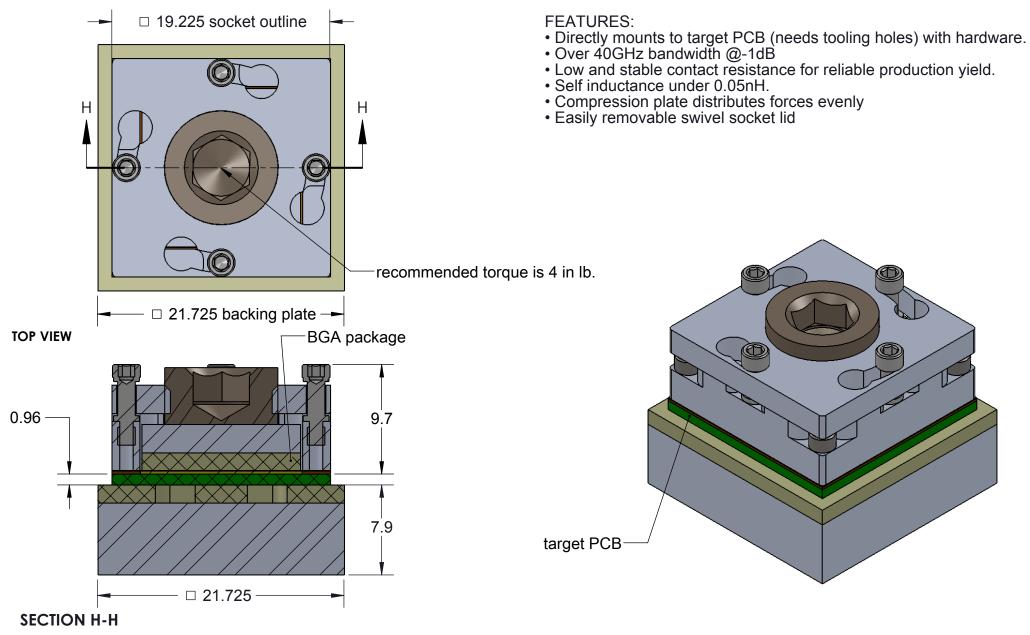
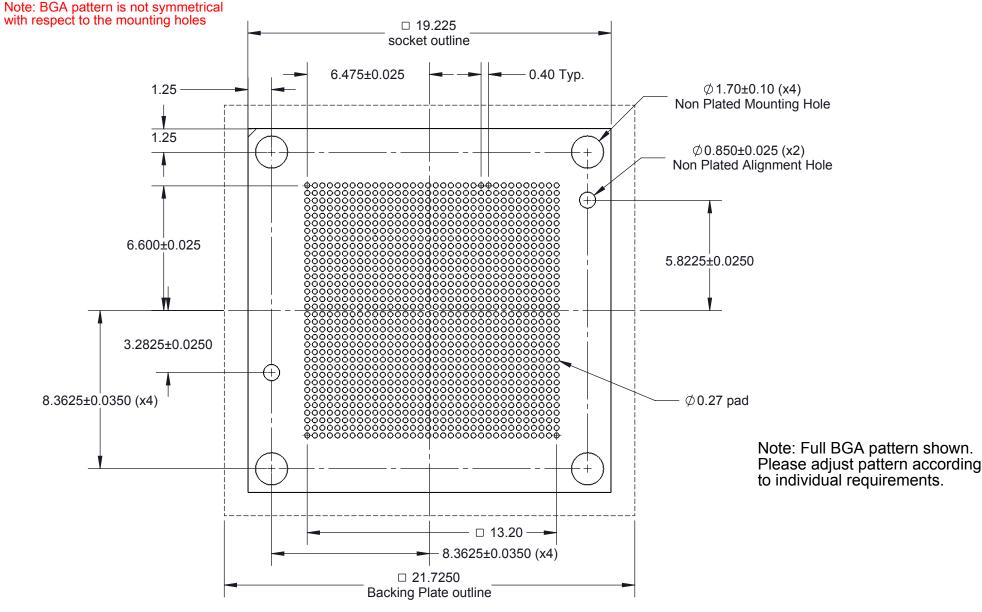
0.25mmGHz BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR TEST APPLICATIONS



Description: SG25-BGA 14x14mm, 34x34 0.4mm pitch

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances:</u> Hole diameters ± 0.03 mm [± 0.001 "], Pitches (from true position) ± 0.025 mm [± 0.001 "], substrate thickness tolerance $\pm 10\%$, all other tolerances ± 0.13 mm [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change

SG25-BGA-2000 Drawing		material: material flot opening	STATUS: Released	SHEET: 1 OF 4	REV. B
•	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight: 17.17	ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 3:1
	www.ironwoodelectronics.com	weight. 17:17	FILE: SG25-BGA-2000	DATE: 1/10/2015	



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"]. substra

<u>Tolerances:</u> 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 hotice.

SG25-BGA-2000 Drawing

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

Weight: 17.17

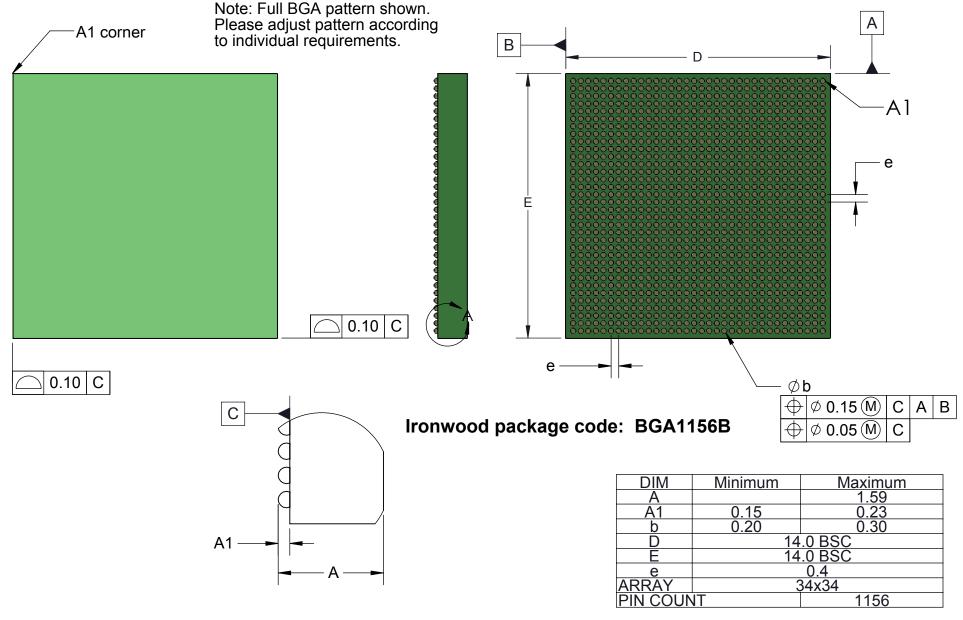
STATUS: Released	SHEET: 2 OF 4	REV. B
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
FILE: SG25-BGA-2000	DATE: 1/10/2015	

Target PCB Recommendations Total thickness: 1.6mm min.

Plating: ENIPIG, Solder Finish, Hard Gold

PCB Pad height: Same or 0.001"-0.002" lower than solder mask

Solder mask opening: 0.014"



DETAIL A SCALE 16:1

- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
- Datum C (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.

Description: Compatible BGA

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

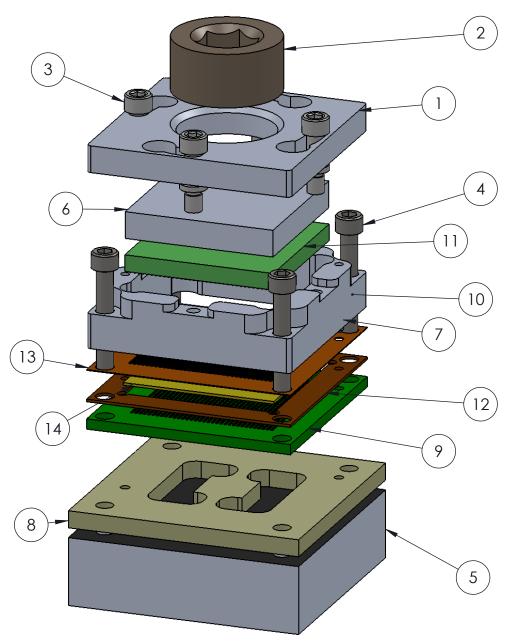
 $\underline{Iolerances:} \ Hole \ diameters \pm 0.03mm \ [\pm 0.001"], \ Pitches \ (from true position) \pm 0.025mm \ [\pm 0.001"], \ substrate \ thickness \ tolerance \pm 10\%, \ all \ other \ tolerances \pm 0.13mm \ [\pm 0.005"] \ unless \ stated \ otherwise. \ Materials \ and \ specifications \ are \ subject \ to \ change$

Weight: 17.17

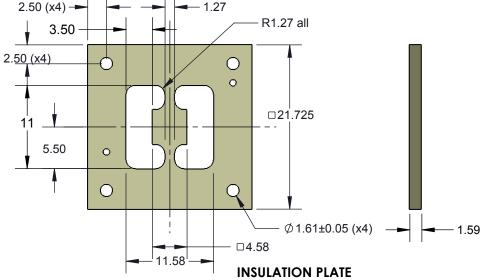
SG25-BGA-2000 Drawing

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

STATUS: Released	SHEET: 3 OF 4	REV. B
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
FILE: SG25-BGA-2000	DATE: 1/10/2015	



ITEM NO.	Description	Material
1	GHz Swivel Socket Lid, 14mm IC	7075-T6 Aluminum Alloy
2	Compression Screw M10	7075-T6 Alumium Alloy
3	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
4	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
5	Backing Plate, 21.725 X 21.725	7075-T6 Aluminum Alloy
6	Compression Plate, 13.95 X 13.95	7075-T6 Aluminum Alloy
7	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
8	Insulation Plate	FR4 Standard
9	PCB 14x14mm, 34x34 0.4mm pitch 0.125mm offset	Material <not specified=""></not>
10	Socket Base BGA 14x14	7075-T6 Aluminum Alloy
11	Customer's BGA 0.4mm pitch 34x34 array 14mm	High Temp FR4
12	Elastomer Guide 14mm IC 0.25mm thk	Kapton Polyimide/Cirlex
13	Ball guide 34x34 0.4mm pitch	Kapton Polyimide
14	0.25mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm



Description: Socket Specification

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

<u>Tolerances:</u> 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.

SG25-BGA-2000	Drawing
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	9)	

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

Weight: 17.17

STATUS: Released		SHI	SHEET: 4 OF 4		REV. B
ENG: V. Panavala		DR	DRAWN BY: V. Panavala		SCALE: 1:1
FILE: SG25-BGA-2000		DA	TF: 1/10/	2015	

Date Initials Description

edges

Added radius to socket base

Rev

5/28/15