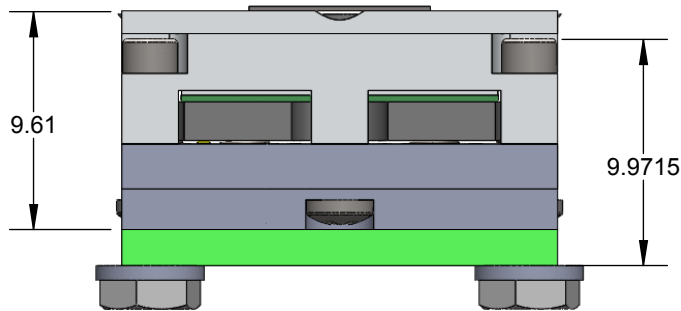
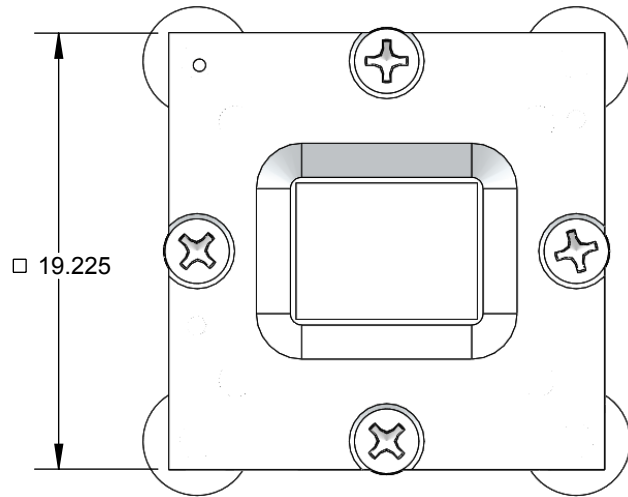


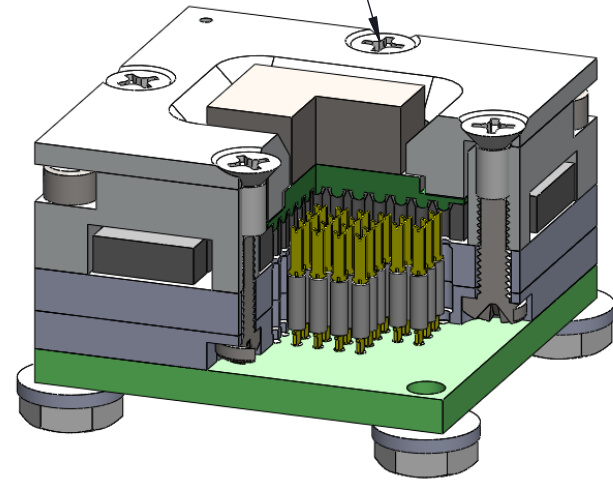
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

- Wide temperature range (-55C to +180C).
- High current capability (up to 4A).
- Excellent signal integrity at high frequencies.
- Low and stable contact resistance for reliable production yield.
- Highly compliant to accommodate wide co-planarity variations.
- Automated probe manufacturing enables low cost and short lead time.




Recommended torque = 6 in-oz per screw



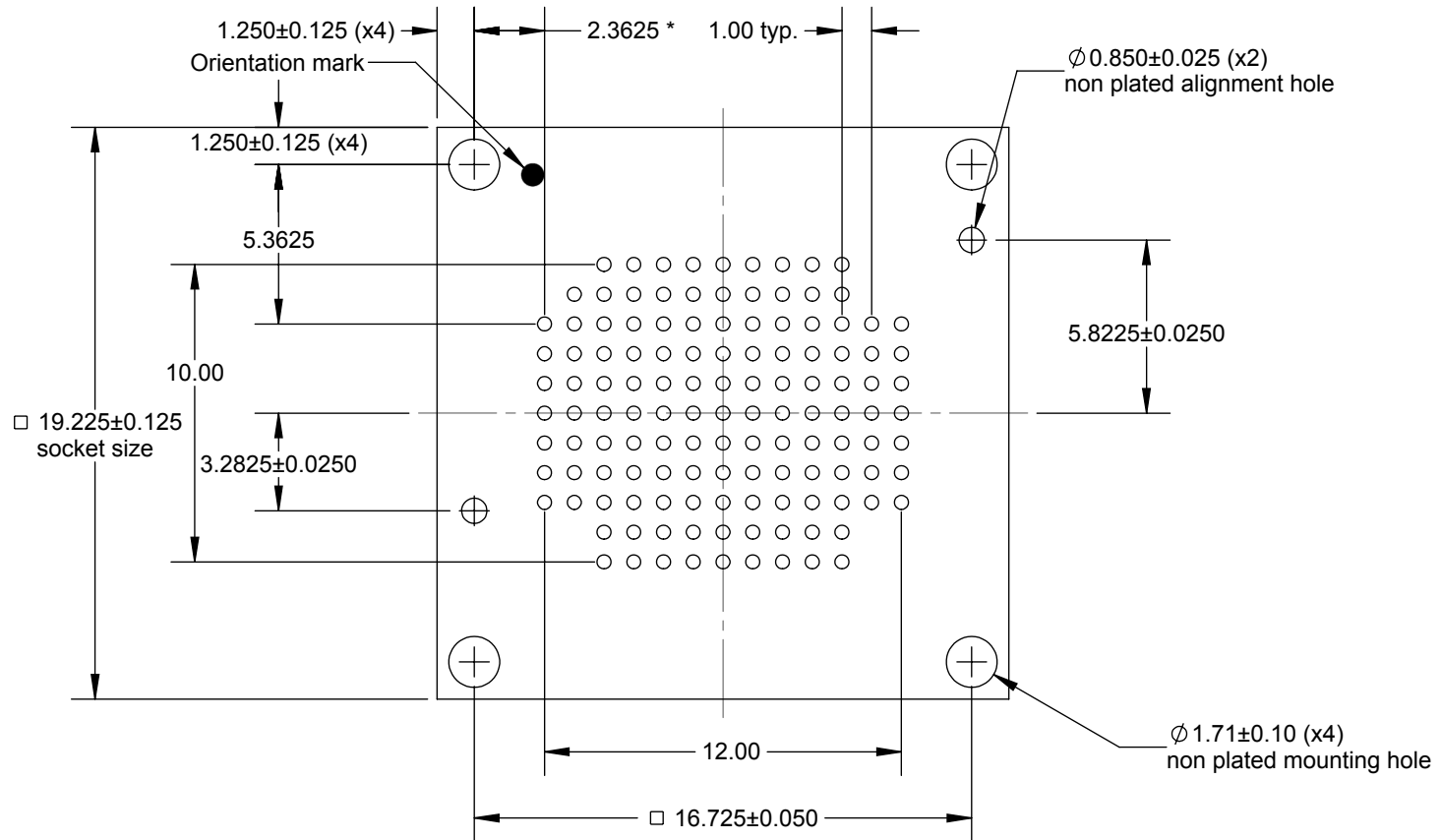
Description: Socket Drawing

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.

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 7.79	STATUS: Released	SHEET: 1 OF 4	REV. A
		DRAWN BY: S. Huang	SCALE: 3:1	
		FILE: SBT-BGA-6026	DATE: 7/17/2012	

Recommended PCB Layout




Target PCB Recommendations

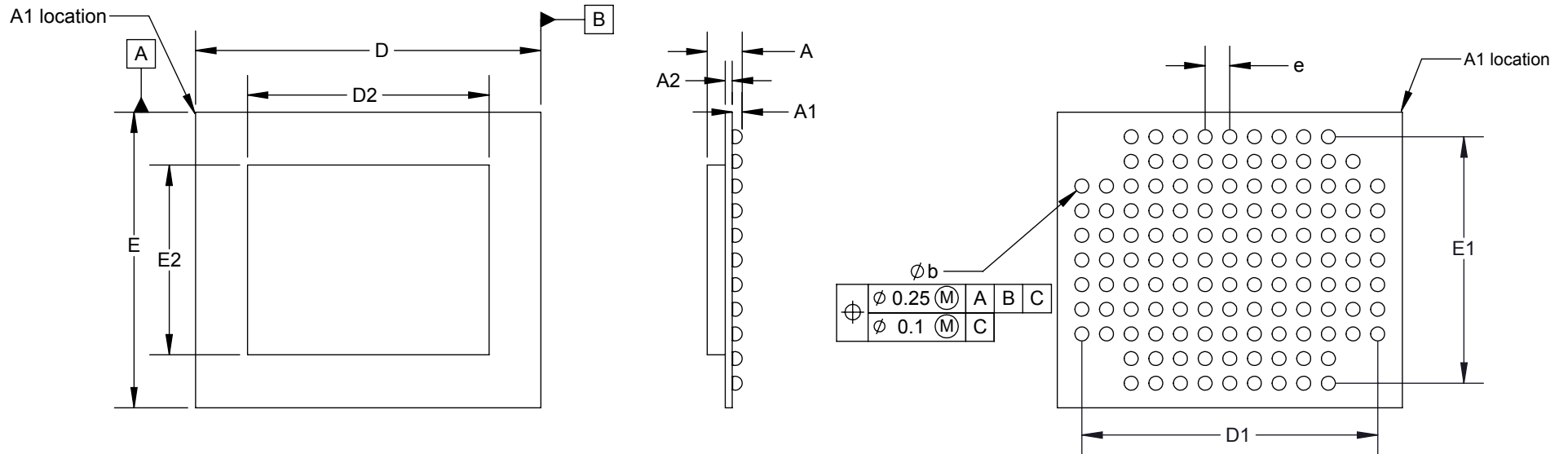
- Total thickness: 1.6mm min.
- Plating: Gold or Solder finish.
- PCB pad height: Same or higher than solder mask.

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.

 <p>Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: Material <not specified> Finish: Weight: 7.79</p>	<p>STATUS: Released DRAWN BY: S. Huang FILE: SBT-BGA-6026</p>	<p>SHEET: 2 OF 4 SCALE: 4:1 DATE: 7/17/2012</p>	<p>REV. A</p>
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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 C.
4. Datum C (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.

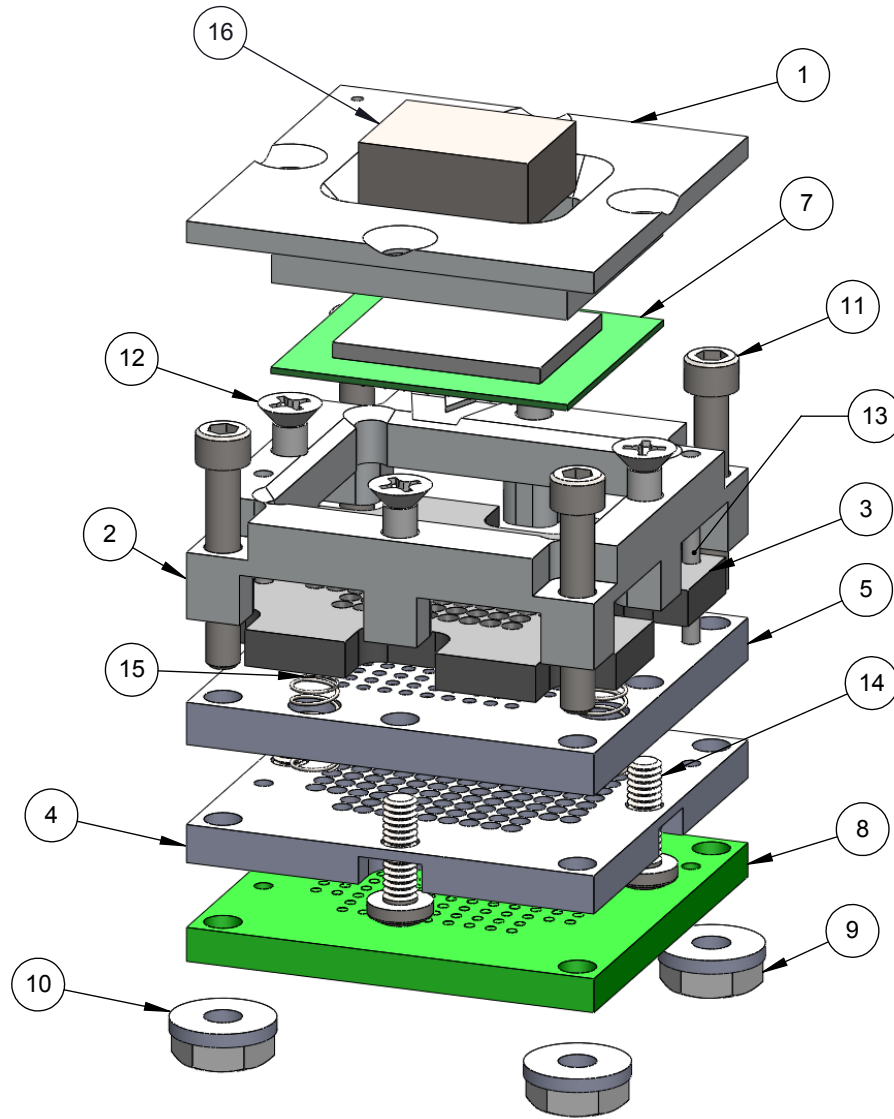
DIM	Minimum	Maximum
A	1.2	1.6
A1	0.25	0.45
A2	0.24	0.34
b	0.45	0.6
D	13.80	14.20
D1	12.00	
D2	9.50	9.80
E	11.80	12.20
E1	10.00	
E2	7.40	7.70
e	1.00 BSC	
ARRAY SIZE	13 X 11	
PIN COUNT	128	

Description: Compatible BGA IC

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

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

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 7.79	STATUS: Released DRAWN BY: S. Huang FILE: SBT-BGA-6026	SHEET: 3 OF 4 SCALE: 4:1 DATE: 7/17/2012	REV. A
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ITEM NO.	DESCRIPTION	Material
1	Open top socket lid with compression frame	7075-T6 Aluminum Alloy
2	Custom socket base with post	7075-T6 Alumium Alloy
3	Floating Guide BGA128 1mm pitch 13x11 array	PEEK Ceramic filled
4	Bottom Pogo Guide BGA128 1mm pitch 13x11 array	PEEK Ceramic filled
5	Middle Pogo Guide BGA128 1mm pitch 13x11 array	PEEK Ceramic filled
6	Pogo Pin, 1mm Pitch SBT BGA pin	
7	Test Chip 14x12mm 1mm pitch 13x11 array	High Temp FR4
8	Test PCB 13x11 array 1mm pitch	High Temp FR4
9	Nut, #0-80, SS	Stainless Steel (18-8)
10	Washer, #0 x .025", Nylon	Nylon 6/6
11	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
12	Screw, #0-80 X .1125", Flat, SS	Material <not specified>
13	Dowel Pin, 1/32" x 3/8", SS	Chrome Stainless Steel
14	Screw, #0-80 x .188", Pan, SS	Material <not specified>
15	Floating Guide Spring	Alloy Steel (SS)
16	Gap pad 2500 0.125" thick 2.7W/(m.K) thermal conductivity	Gap Pad 2500




POGO PIN
Scale 8:1

Rev	Date	Initials	Description
A	07/17/12	SH	Original

Description: ASSEMBLY

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.

 <p>SBT-BGA-6026 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: Material <not specified> Finish: Weight: 7.79</p>	STATUS: Released	SHEET: 4 OF 4	REV. A
		DRAWN BY: S. Huang	SCALE: 3:1	
		FILE: SBT-BGA-6026	DATE: 7/17/2012	