

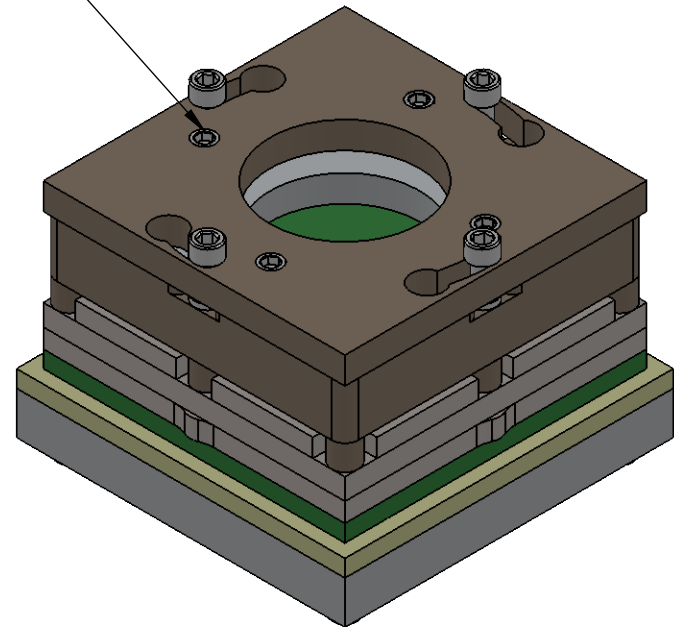
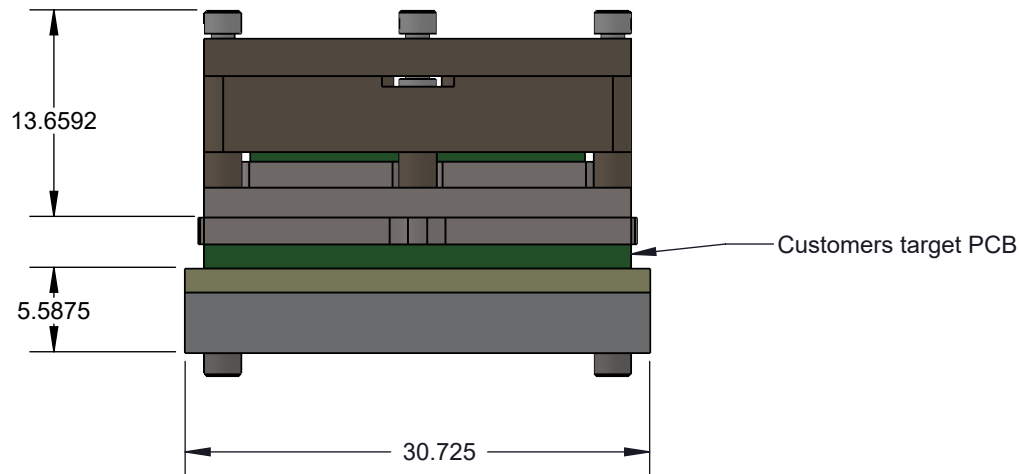
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

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

Required torque = 0.5 lbs-in/ screw (5.65 N-cm/screw)


Recommended Tool: Contact Ironwood



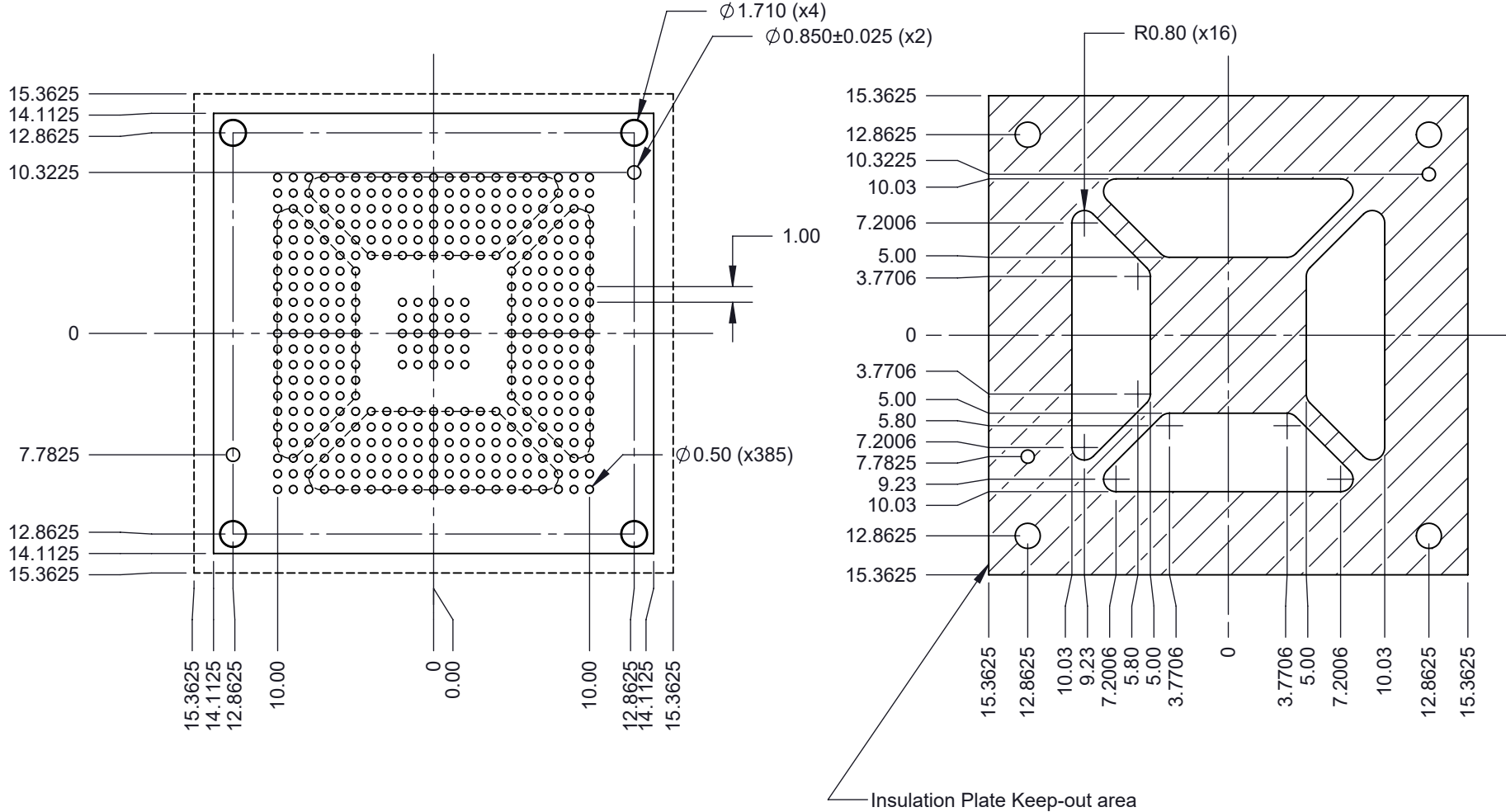
Description: Socket Spec

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.

 <p>Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	SBT-BGA-6018 Drawing	Material: N/A Finish: N/A Weight: 30.80	STATUS: Released	SHEET: 1 OF 4	REV. A
			ENG: M. Tully	SCALE: 2:1	
				FILE: SBT-BGA-6018 Dwg	DATE: 4/2/2013


Note: BGA pattern is NOT symmetrical with respect to the mounting holes.

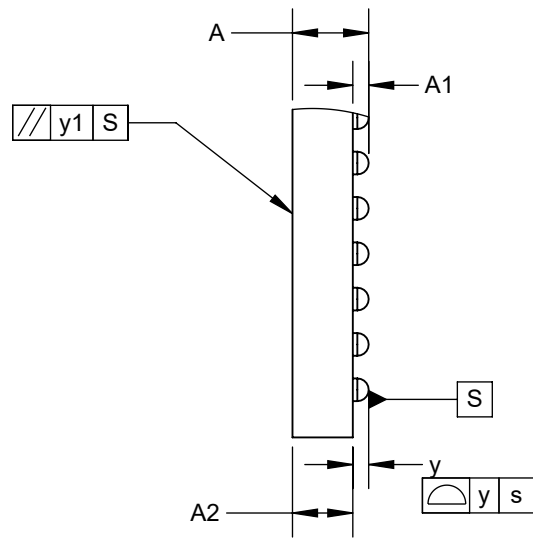
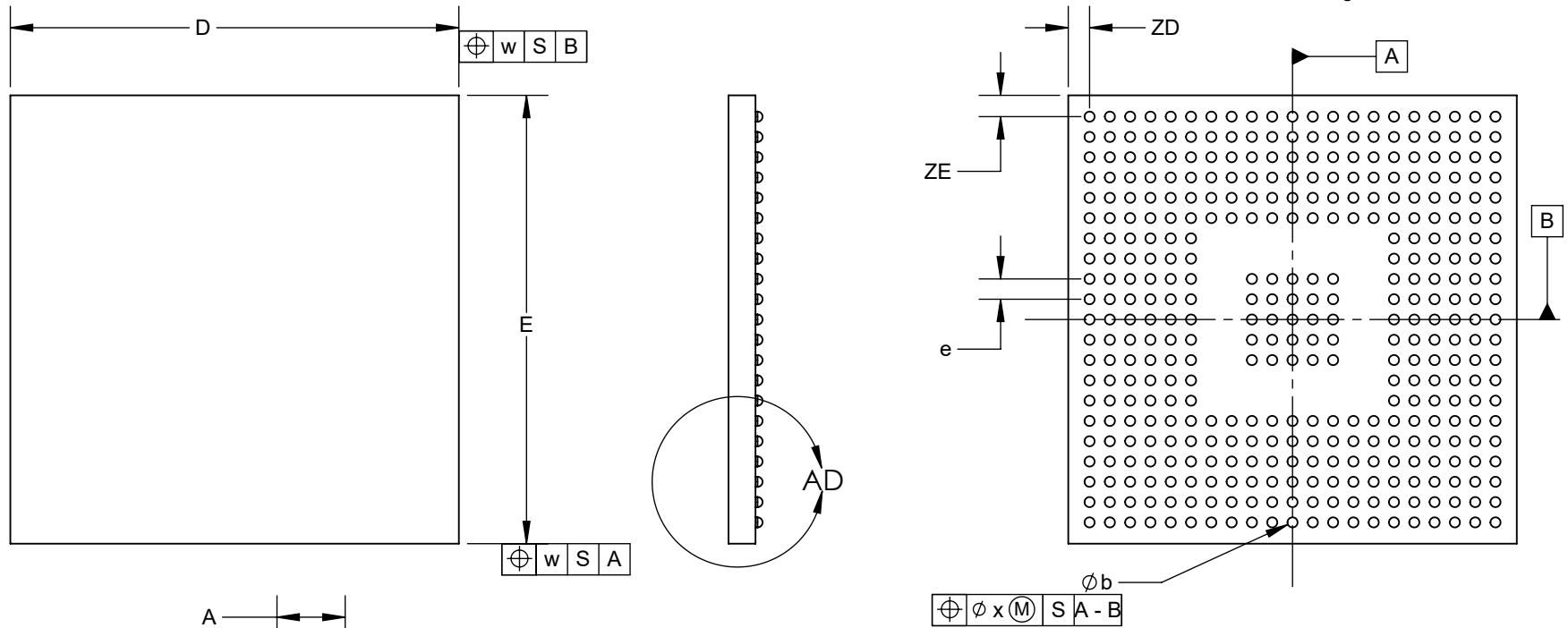


Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

Description: Recommended 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.

 SBT-BGA-6018 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 30.80	STATUS: Released ENG: M. Tully FILE: SBT-BGA-6018 Dwg	SHEET: 2 OF 4 SCALE: 2.5:1 DATE: 4/2/2013	REV. A




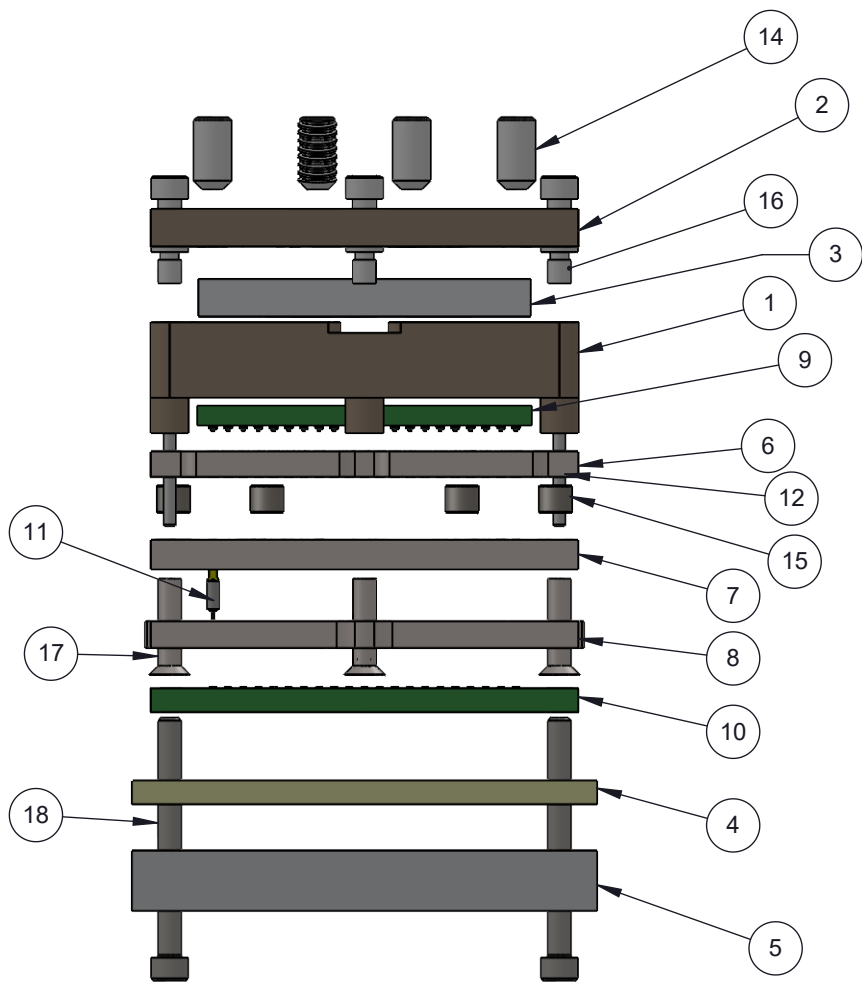
Item	Dimension (mm)
D	22.00±0.10
E	22.00±0.10
w	0.30
A	1.83±0.20
A1	0.50±0.10
A2	1.33
e	1.00
b	0.60±0.10
x	0.1
y	0.15
y1	0.35
ZD	1.00
ZE	1.00

Description: BGA Spec

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.

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 30.80	STATUS: Released ENG: M. Tully FILE: SBT-BGA-6018 Dwg	SHEET: 3 OF 4 SCALE: 3:1 DATE: 4/2/2013	REV. A
--	---	---	---	--------




ITEM NO.	DESCRIPTION	Material
1	Ni plated Socket Base for 22x22mm IC	7075-T6 Aluminum Alloy
2	Ni plated Socket Lid for 22x22mm IC	7075-T6 Aluminum Alloy
3	Ni plated compression plate for 22x22mm IC w/ 14mm hole	7075-T6 Aluminum Alloy
4	Insulation plate for 23x23mm IC	FR4 High temp
5	SBT/CBT NI PLT BACKING PLT 23MM	7075-T6, Plate (SS)
6	Floating Guide 23X23mm 1mm 22x22 array	PEEK Ceramic filled
7	Middle Guide 22X22mm 1mm 21x21 array	PEEK Ceramic filled
8	Bottom Guide 22X22mm 1mm 21x21 array	PEEK Ceramic filled
9	BGA385 chip, 22x22mm, 21x21array, 1mm pitch	Material <not specified>
10	Target PCB for 22x22mm; 1mm, 21x21	Material <not specified>
11	Pogo Pin, 1mm Pitch SBT BGA pin	
12	Dowel Pin, 1/32" x 3/8", SS	Chrome Stainless Steel
13	3-48 set screw	Black-Oxide Alloy Steel
14	3-48 set screw, flat point	Black-Oxide Alloy Steel
15	Floating Guide Spring	Alloy Steel (SS)
16	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
17	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
18	#0-80 X .625 LG, SOC HD CAP SCREW, SS	Stainless Steel (ferritic)

Description: Exploded View

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.

 SBT-BGA-6018 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 30.80	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: M. Tully	SCALE: 2:1	
		FILE: SBT-BGA-6018 Dwg	DATE: 4/2/2013	