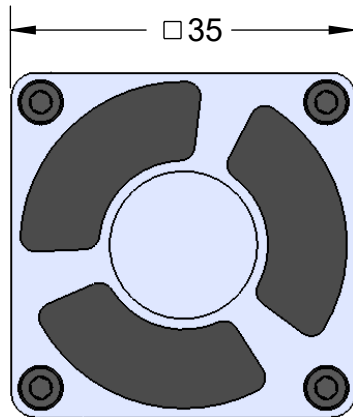


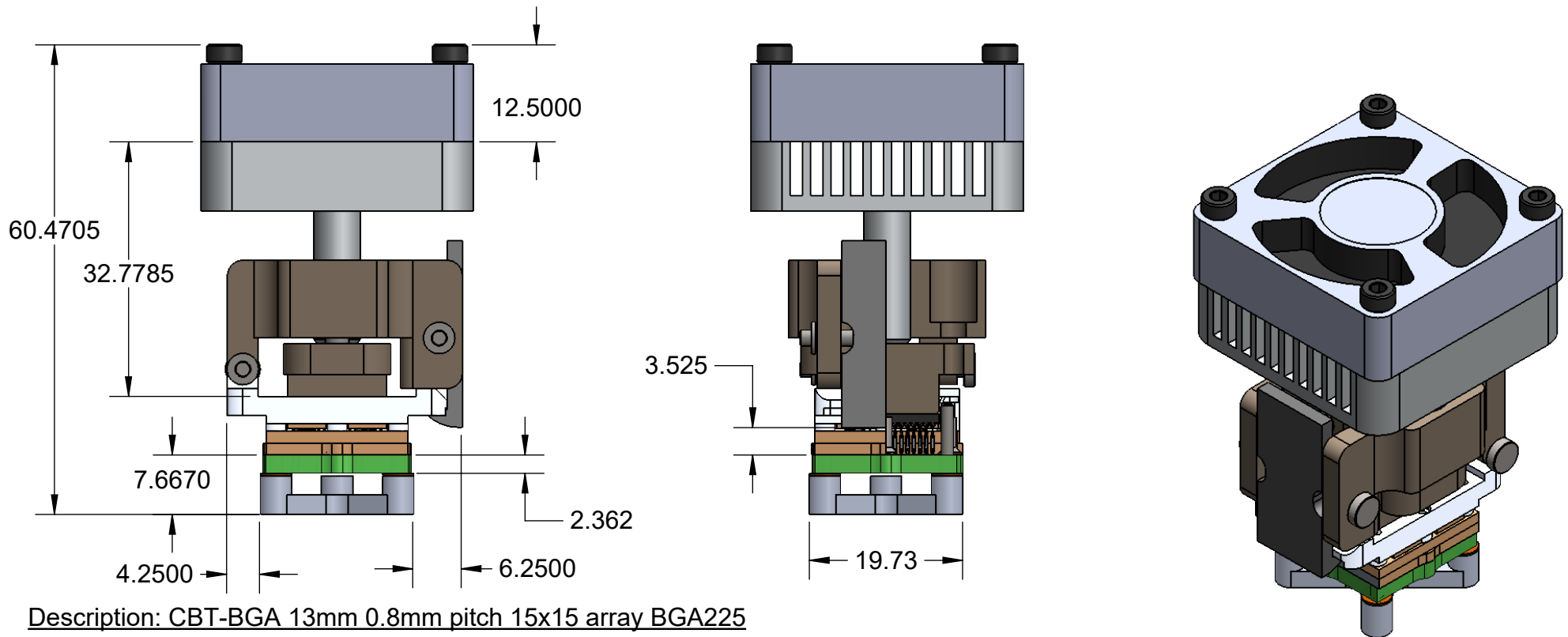
# CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



## 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 is 13 N-cm (1.2 lbf-in)

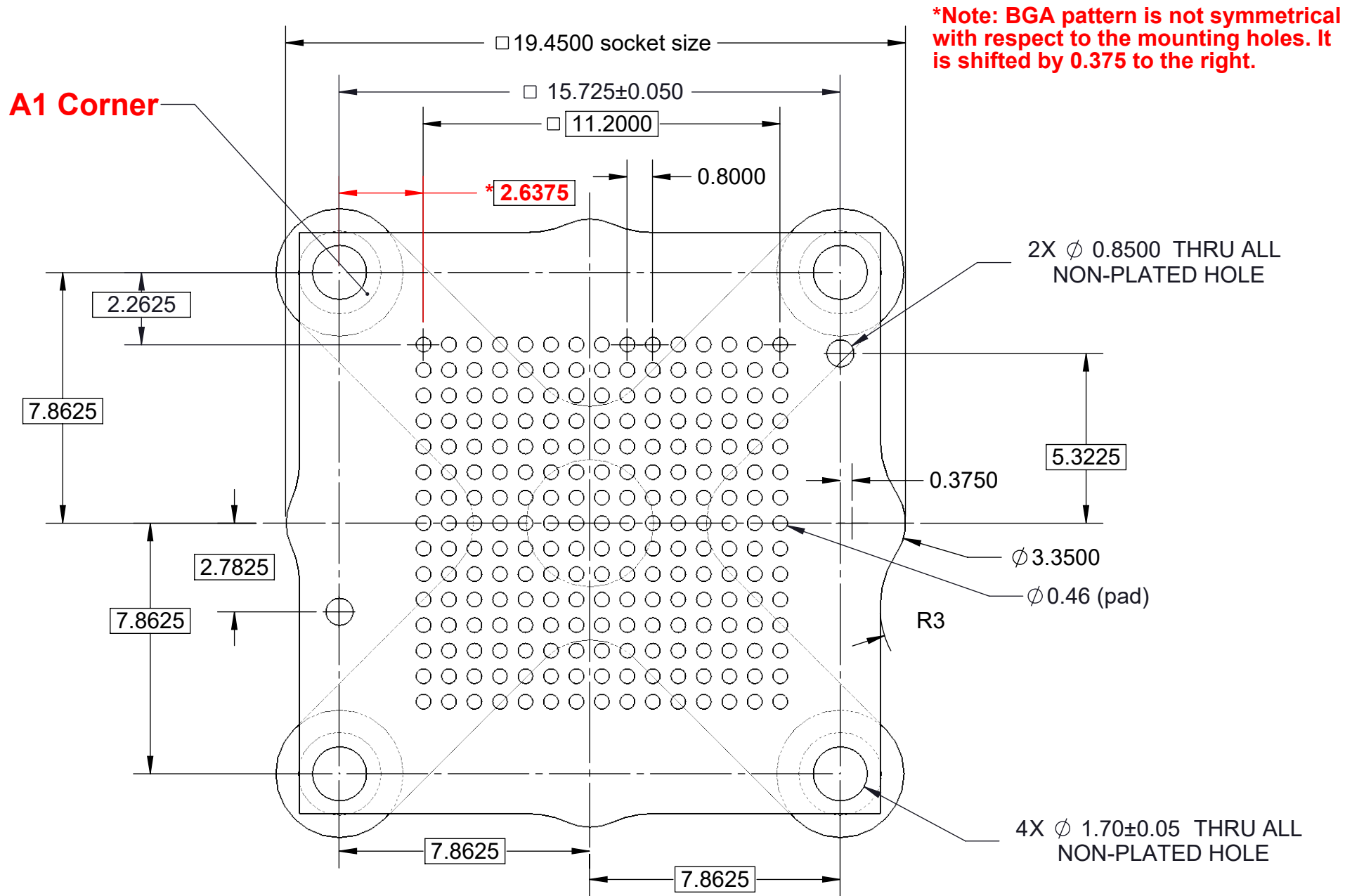


**Description: CBT-BGA 13mm 0.8mm pitch 15x15 array BGA225**

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.

 <b>CBT-BGA-6054 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified>	STATUS: Released	SHEET: 1 OF 5	REV. A
	Finish: Weight: 68.50	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.3:1
		FILE: CBT-BGA-6054 Dwg	DATE: 10/13/2015	




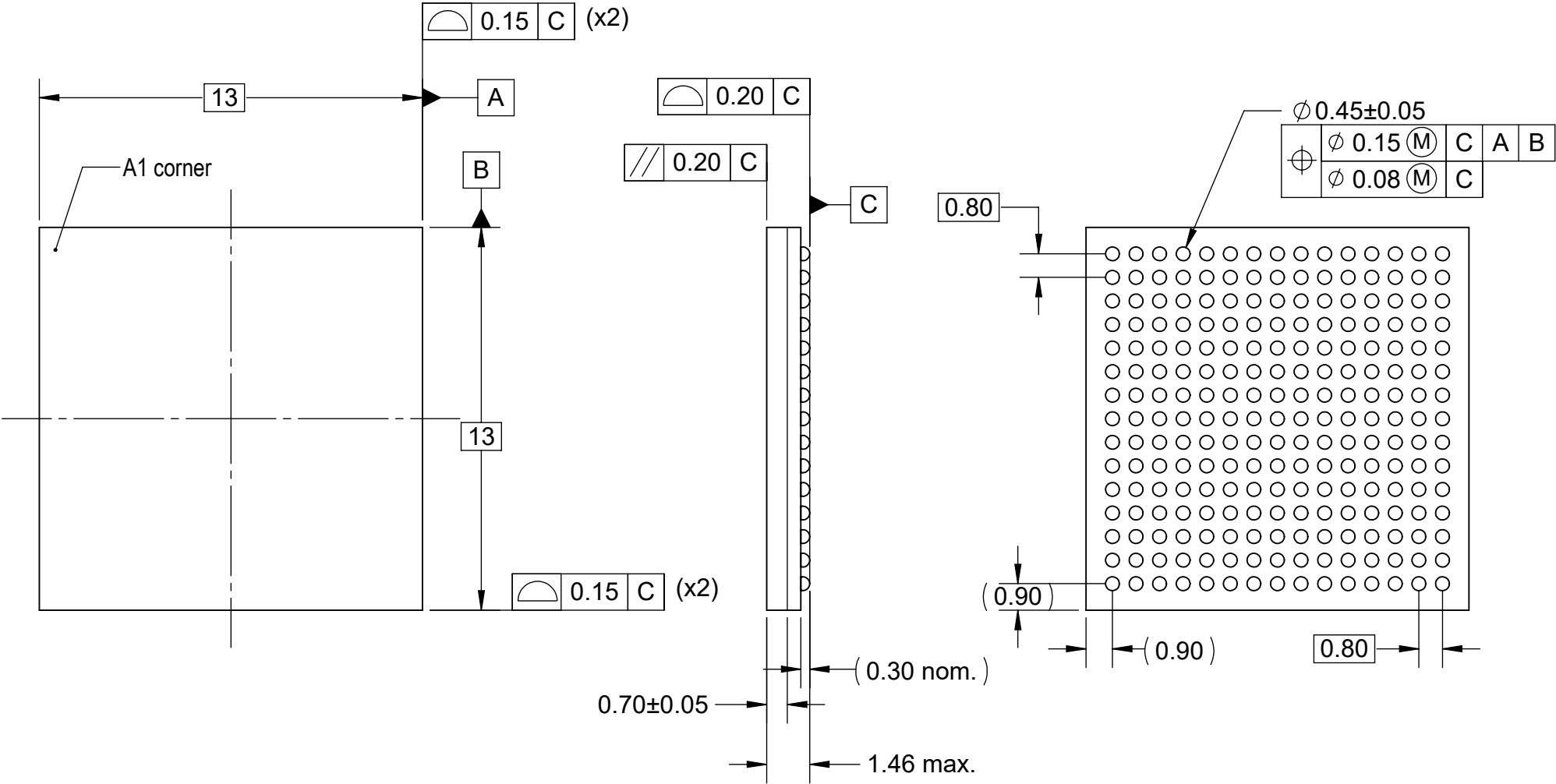
**Description: CBT-BGA 13mm 0.8mm pitch 15x15 array BGA225**

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.


**Target PCB Recommendations**  
 Total thickness: 1.6mm min.  
 Plating: Gold or Solder finish

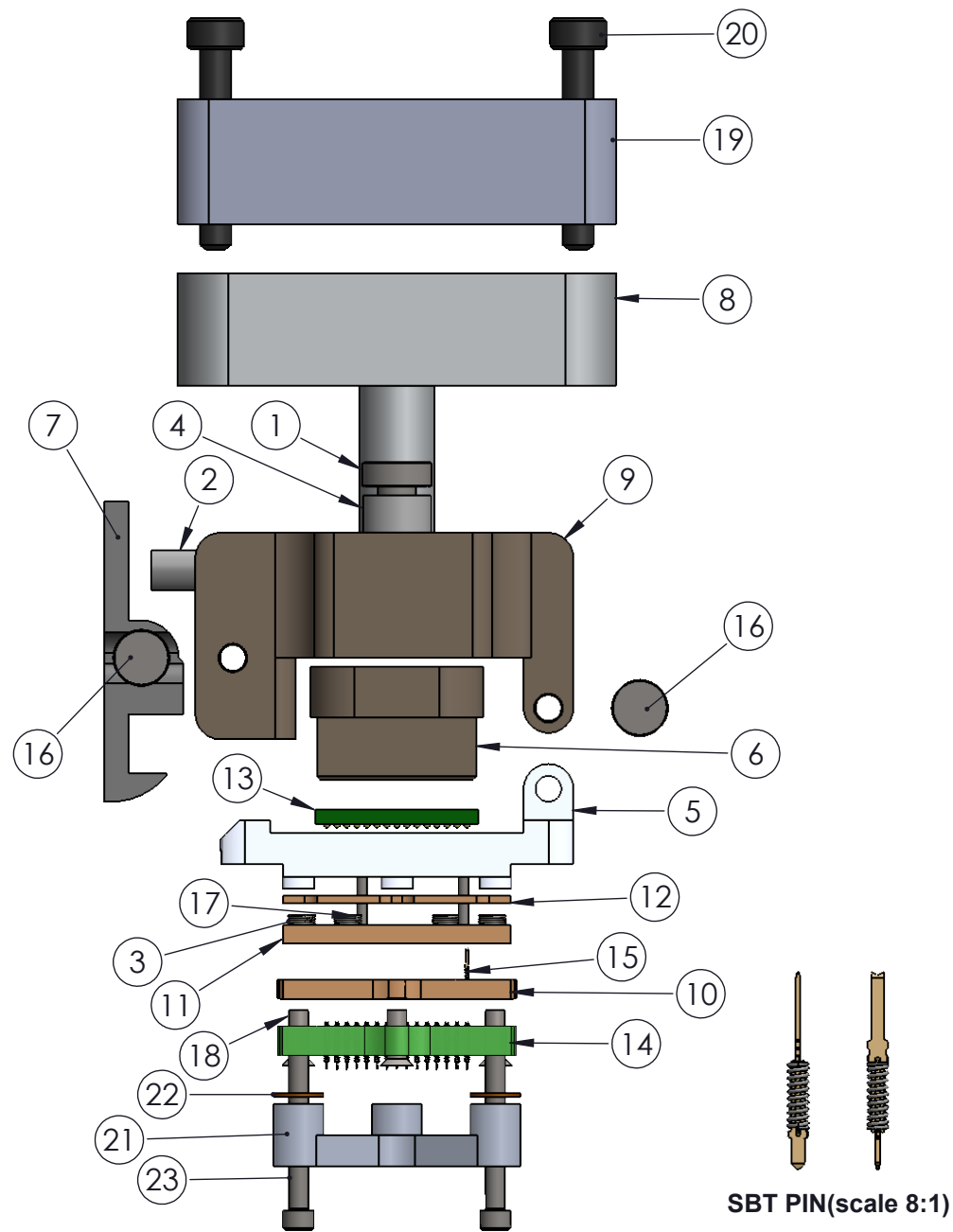
 <b>CBT-BGA-6054 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 68.50	STATUS: Released	SHEET: 2 OF 5	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 6:1
		FILE: CBT-BGA-6054 Dwg	DATE: 10/13/2015	



**Description: CBT-BGA 13mm 0.8mm pitch 15x15 array BGA225**

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 <p><b>CBT-BGA-6054 Drawing</b>                  Ironwood Electronics, Inc.                  Tele: (800) 404-0204                  www.ironwoodelectronics.com</p>	<p>Material: Material &lt;not specified&gt;                  Finish:                  Weight: 68.50</p>	STATUS: Released	SHEET: 3 OF 5	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: CBT-BGA-6054 Dwg	DATE: 10/13/2015	




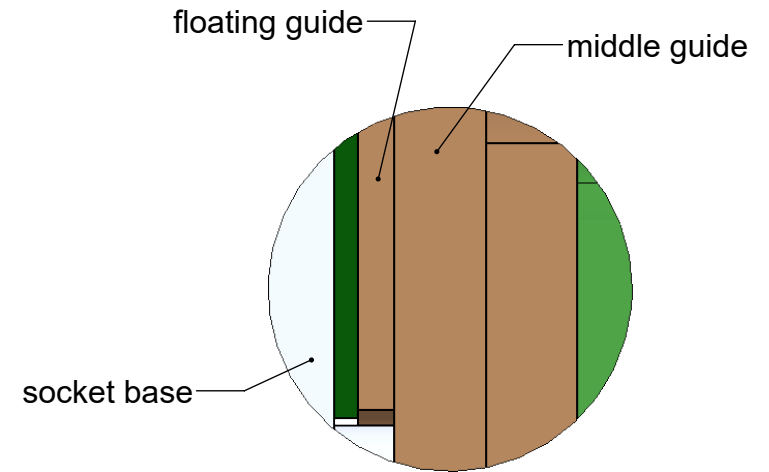
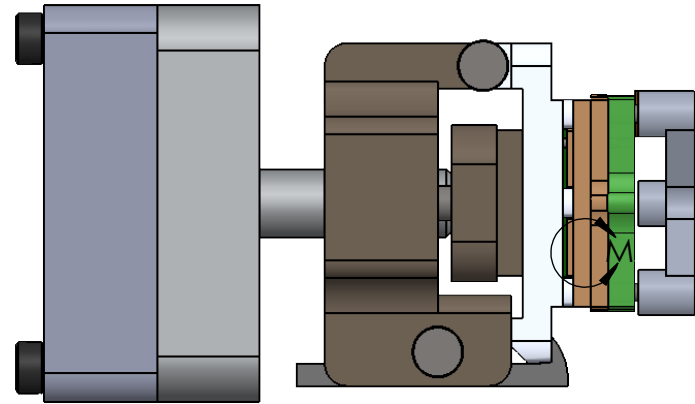
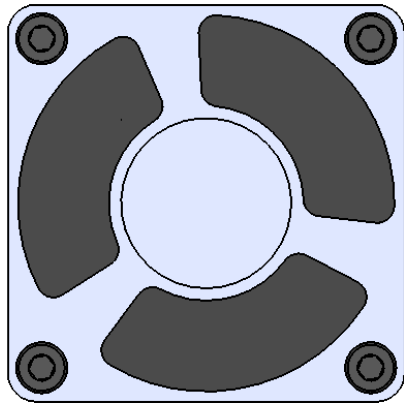
ITEM NO.	DESCRIPTION	Material
1	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
2	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
3	Floating Guide Spring	Alloy Steel (SS)
4	Spring Clamshell lid assembly	Steel Music Wire
5	CBT Socket Base 13mm	7075-T6 Aluminum Alloy
6	CBT Compression Plate 13mm IC	7075-T6 Aluminum Alloy
7	Latch 6- 10mm Ni plated	7075-T6 Aluminum Alloy
8	Heat sink screw M6	7075-T6 Aluminum Alloy
9	Clam Shell Socket Lid 10mm IC	7075-T6 Aluminum Alloy
10	Bottom guide, 13mm IC, 15x15 array 0.8mm pitch BGA225	Semitron MDS 100
11	Middle guide, 13mm IC, 15x15array 0.8mm pitch BGA225	Semitron MDS 100
12	Floating guide, 13mm IC, 15x15 array 0.8mm pitch BGA225	Semitron MDS 100
13	Customer's BGA device	Material <not specified>
14	Customer's target PCB	FR4
15	SBT Pin, SBT-BGA 0.5mm-0.8mm	
16	Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS	Stainless Steel (ferritic)
17	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
18	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
19	Fan: 35MMX35MMX10MM 12V 6.5CFM	Material <not specified>
20	Cap, socket head, M2.5x0.45x16mm Black-Oxide Alloy Steel 12.9	Alloy Steel Class 12.9
21	13x13mm Clamshell Backing Plate	7075-T6 Aluminum Alloy
22	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
23	#0-80 x 0.5, SH Cap Screw	Alloy Steel

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 <b>CBT-BGA-6054 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified>	STATUS: Released	SHEET: 4 OF 5	REV. A
	Finish: Weight: 68.50	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.75:1
		FILE: CBT-BGA-6054 Dwg	DATE: 10/13/2015	




DETAIL M  
SCALE 8 : 1

**User Instructions:**

1. Remove three fan screws and turn the fan as shown to expose hex opening on the compression screw.
2. Apply 13 **Ncm (1.2 lb in)** torque to the compression screw using torque driver tool or turn the compression screw until floating guide is sitting on the middle guide as shown on the detailed view.

**Description: User Instructions**

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.

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		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:2
		FILE: CBT-BGA-6054 Dwg	DATE: 10/13/2015	