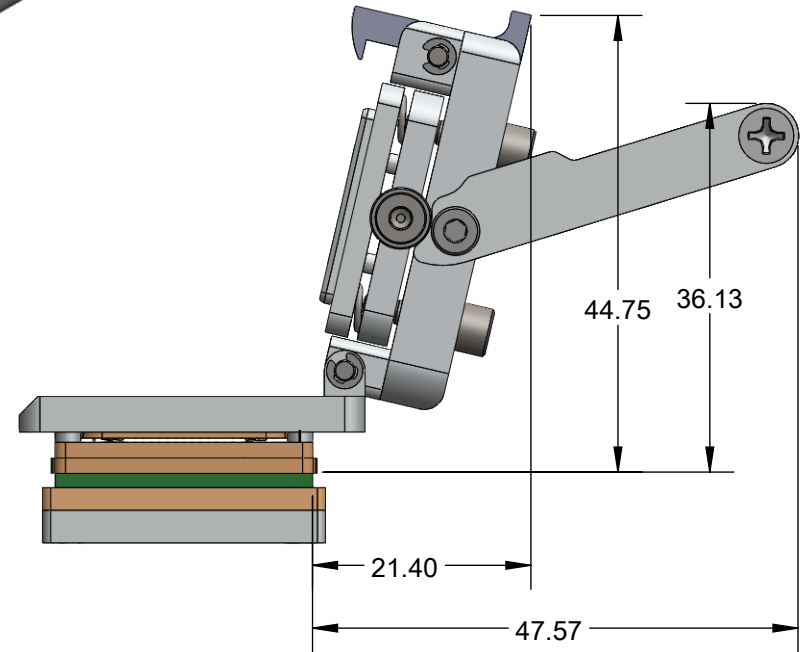
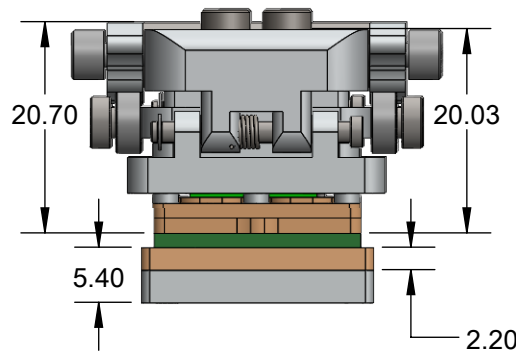
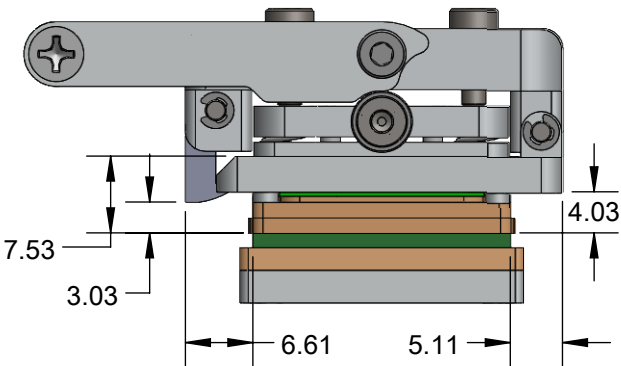
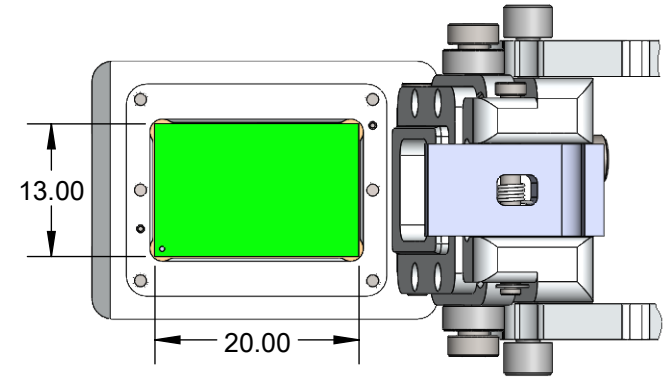
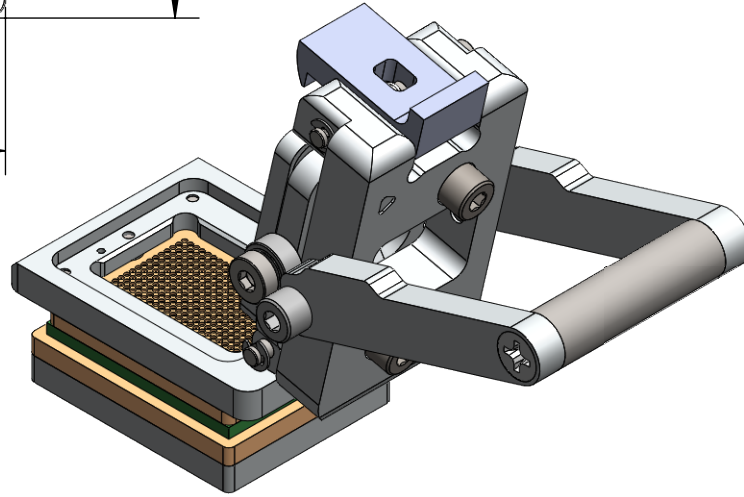
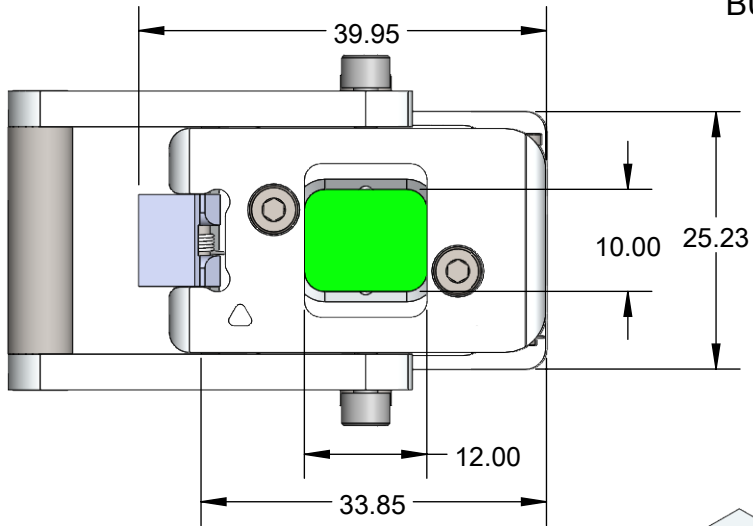


# CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## 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

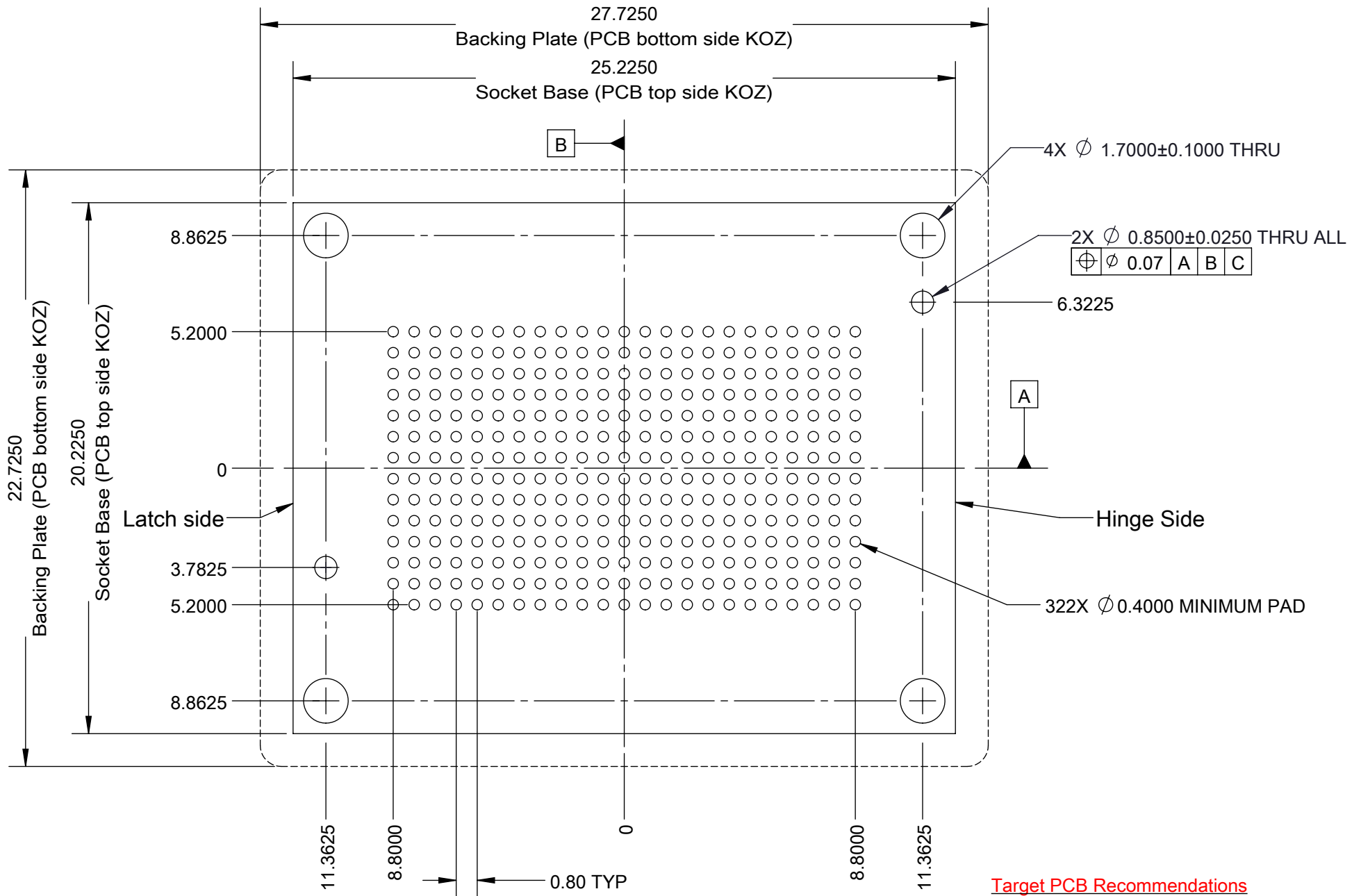


## Description: CBT-BGA322C 13x20mm 0.8mm pitch open top lever lid

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>C19192 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 47.61	STATUS: Released ENG: M. Newby FILE: C19192 Dwg	SHEET: 1 OF 5 DRAWN BY: M. Newby DATE: 7/22/2019	REV. A SCALE: 1.35:1




**Target PCB Recommendations**  
 Total thickness: 1.4mm to 2.0mm  
 Hard gold plating is preferred

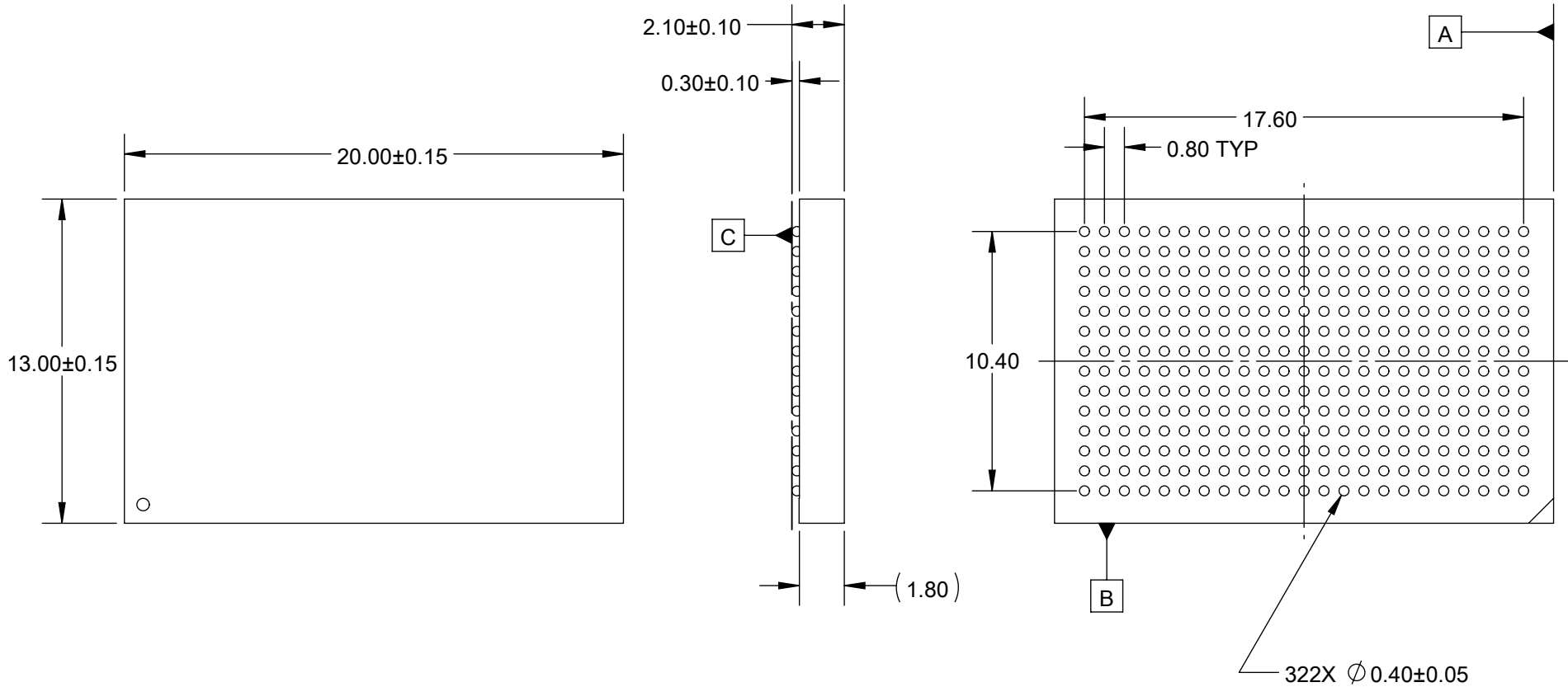
### Description: Recommended PCB Layout

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.

 <b>C19192 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 47.61	STATUS: Released	SHEET: 2 OF 5	REV. A
		ENG: M. Newby	DRAWN BY: M. Newby	SCALE: 5:1
		FILE: C19192 Dwg	DATE: 7/22/2019	


# Ironwood package code: BGA322C

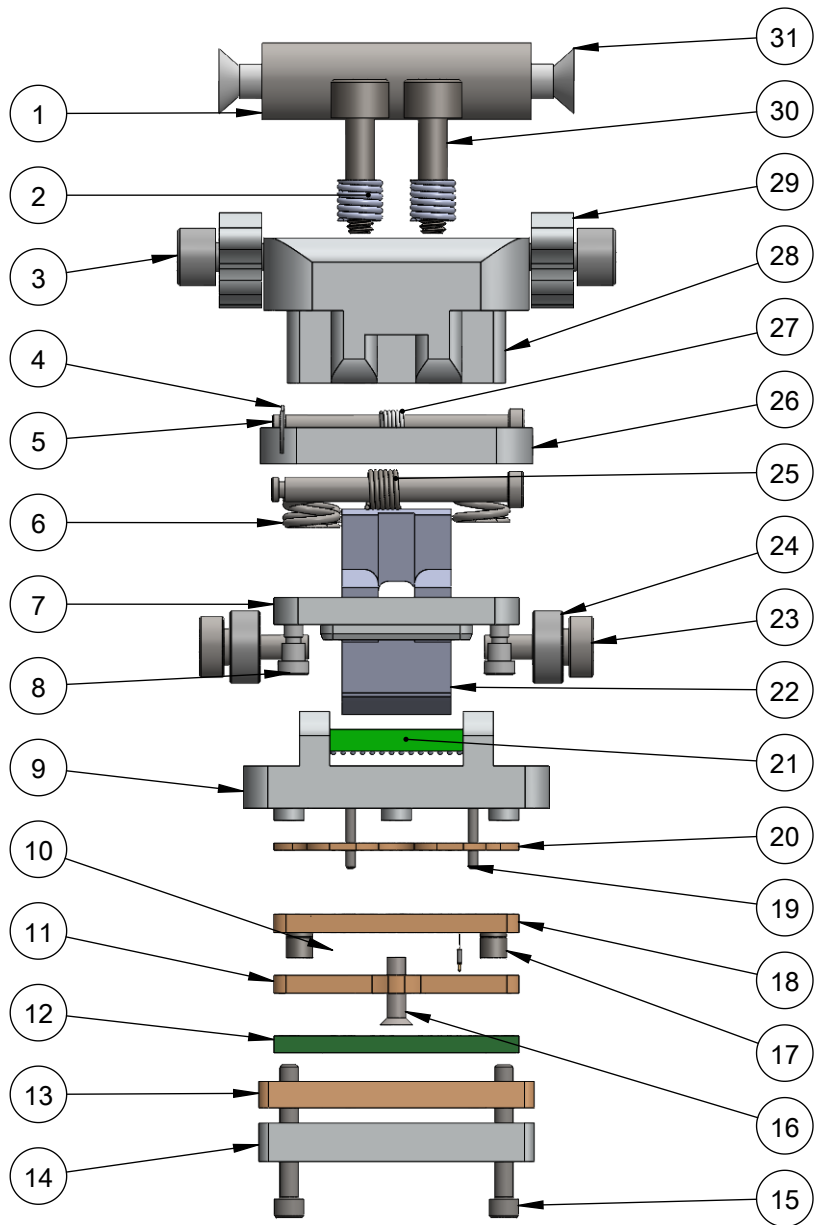


## Description: Compatible BGA

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

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

 <b>C19192 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 47.61	STATUS: Released	SHEET: 3 OF 5	REV. A
		ENG: M. Newby	DRAWN BY: M. Newby	SCALE: 4:1
		FILE: C19192 Dwg	DATE: 7/22/2019	




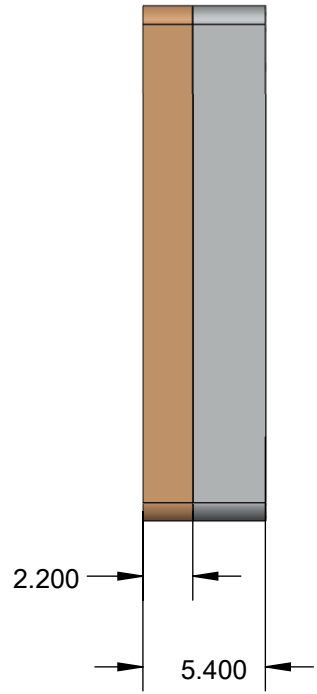
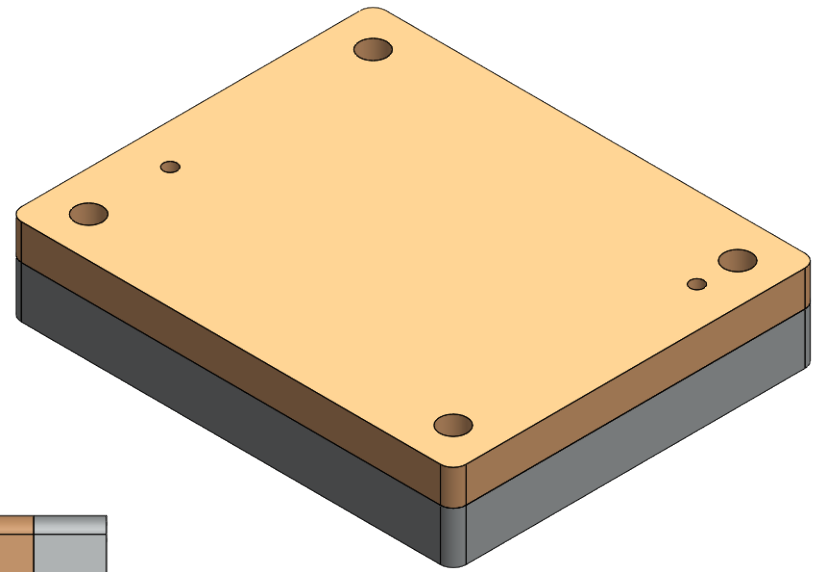
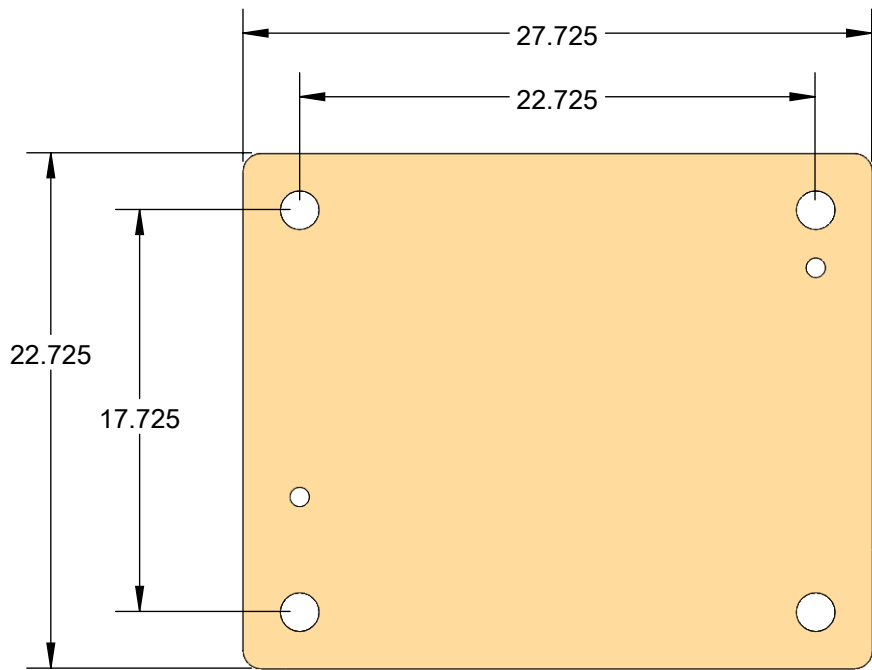
ITEM NO.	DESCRIPTION	Material
1	18-8 SS Female Threaded Round Standoff 1/4" OD, 7/8" Length, 4-40 Screw	Stainless Steel (18-8)
2	316SS Comp. Spring .25" Length, .148" OD, .021" Wire Dia	Material <not specified>
3	Shld scw, 3/32" shld dia, 5/32" shld lg, 2-56 thd	
4	Snap ring for 2mm Hinge pin 0.15" OD	
5	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
6	MW, compression spring, 0.188" dia, 0.25" free lg, 0.026" wire dia, 61.09 lb/in., Solid lg 0.124 in, 7.683 lbs	Stainless Steel (18-8)
7	Bottom Compression Plate, 13x20mm IC	7075-T6 Aluminum Alloy
8	Shoulder Screw 303 SS, 1.505mm Dia x 1.4732mm Long Shoulder, 0-80 Thread	Stainless Steel (303)
9	Socket Base, 13x20mm IC, CBT	7075-T6 Aluminum Alloy
10	SBT Pin, SBT-BGA 0.5mm-0.8mm	
11	Bottom Guide, BGA322, 13x20mm, 0.8mm pitch, 14x23 array	Semitron MDS 100
12	Test PCB, BGA322, 13x20mm, 0.8mm pitch, 14x23 array	FR4 Standard
13	Insulation Plate, 15x20mm IC, Custom	Ultem 1000
14	Backing Plate, 15x20mm IC, SBT	7075-T6 Aluminum Alloy
15	#0-80 X 7/16" LG, SOC HD CAP SCREW	Alloy Steel
16	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
17	Floating Guide Spring	Alloy Steel (SS)
18	Middle Guide, BGA322, 13x20mm, 0.8mm pitch, 14x23 array	Semitron MDS 100
19	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
20	Floating Guide, BGA322, 13x20mm, 0.8mm pitch, 14x23 array	Semitron MDS 100
21	Test Chip, BGA322, 13x20mm, 0.8mm pitch, 14x23 array	FR4
22	Latch, 17mm Tall, 9mm Wide, T-Bar Top, 2mm Hinge	7075-T6 Alumium Alloy
23	18 SS Shoulder Screw, 3 mm Dia. x 3mm Long Shoulder, M2 Thread	18-8 Stainless Steel
24	Bearing 3mm shaft, 6mm OD, 2.5mm Width	
25	0.130" OD 180deg Torsion Spring 0.1in-lbs	Steel Music Wire
26	Top compression plate lever 15x20mm IC	7075-T6 Aluminum Alloy
27	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
28	Lid lever 11.5x13mm	7075-T6 Aluminum Alloy
29	Lever handle 60 degree 1.1mm movement	7075-T6 Aluminum Alloy
30	Lever shoulder screw	Stainless Steel
31	Flat Hd phillips 4-40 x 5/16" long 82deg hd	Stainless Steel

### Description: Socket Assy

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>C19192 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 47.61	STATUS: Released	SHEET: 4 OF 5	REV. A
		ENG: M. Newby	DRAWN BY: M. Newby	SCALE: 1.6:1
		FILE: C19192 Dwg	DATE: 7/22/2019	



**Description: Insulation Plate**

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

Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.0762\text{mm}$  [ $\pm 0.003$ "], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.127\text{mm}$  [ $\pm 0.005$ "] unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>©2017 Ironwood Electronics, Inc.          Tele: (800) 404-0204          www.ironwoodelectronics.com</p>	<p><b>C19192 Drawing</b></p>	<p>Material: Material &lt;not specified&gt;          Finish:          Weight: 47.61</p>	<p>STATUS: Released          ENG: M. Newby          FILE: C19192 Dwg</p>	<p>SHEET: 5 OF 5          DRAWN BY: M. Newby          DATE: 7/22/2019</p>	<p>REV. A          SCALE: 3:1</p>