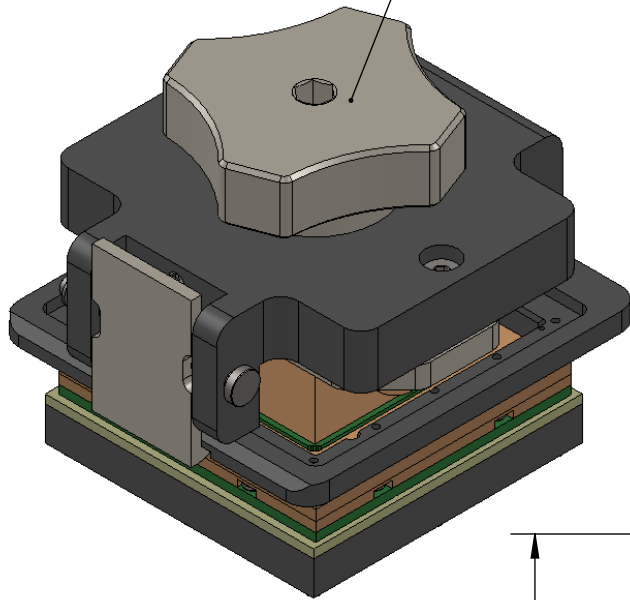


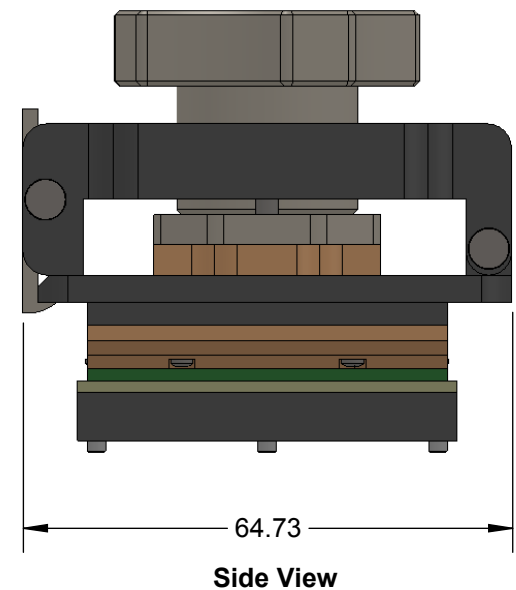
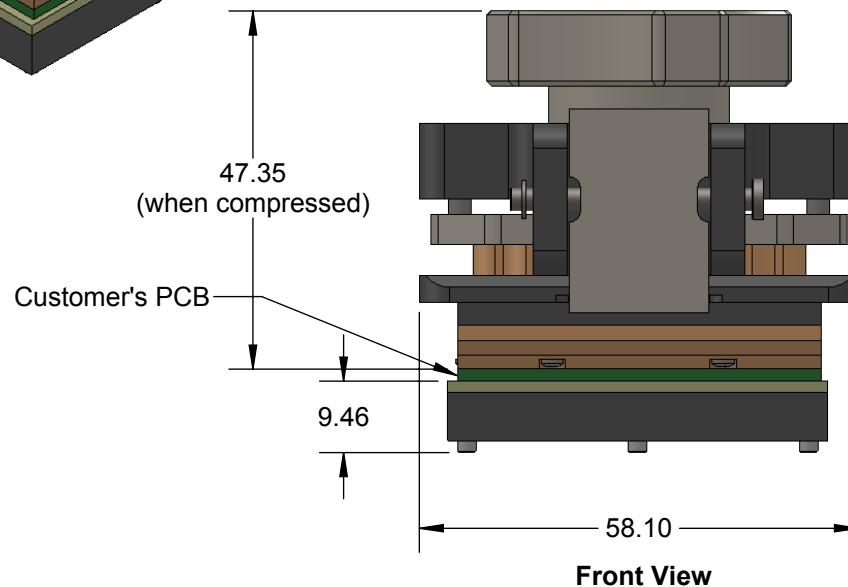
CBT-LGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Recommended Torque 0.5in-lbs



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 socket for custom transformer module

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.

CBT-LGA-5001 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 244.16

STATUS: Released

ENG: SF

FILE: CBT-LGA-5001 Dwg

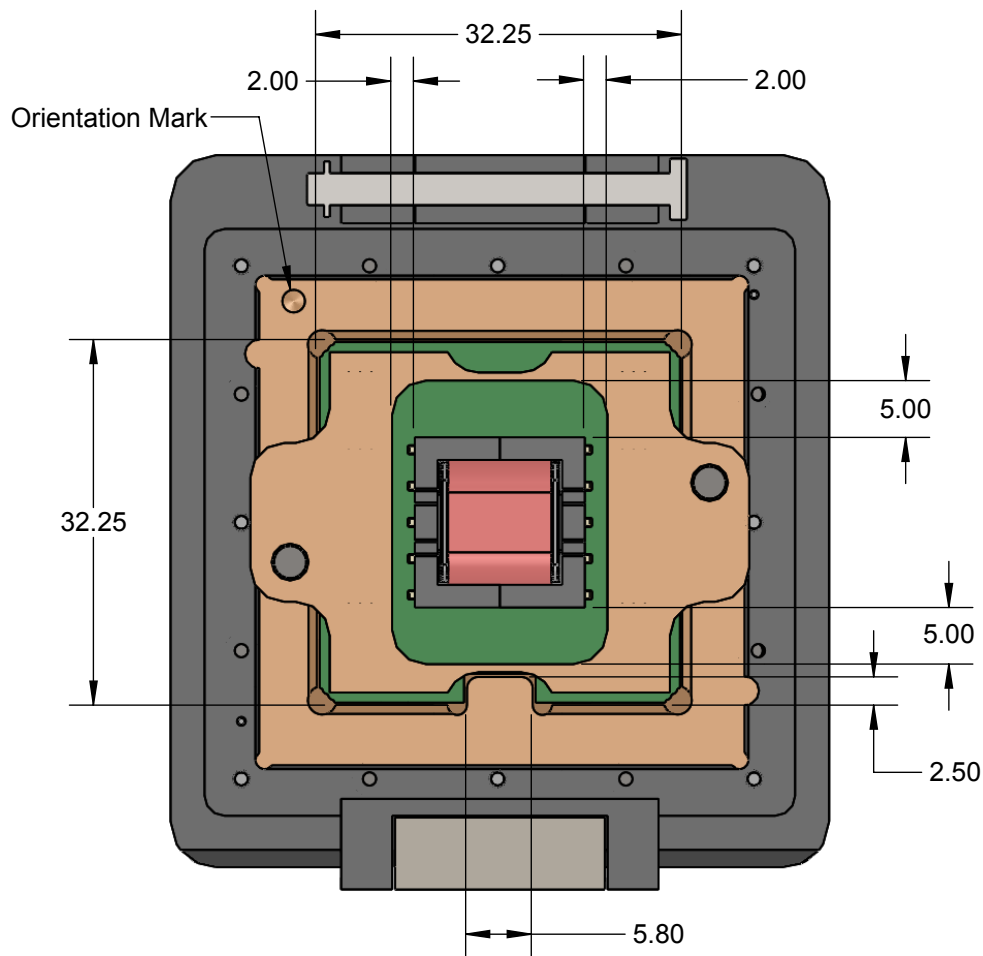
SHEET: 1 OF 5

DRAWN BY: S. Delano

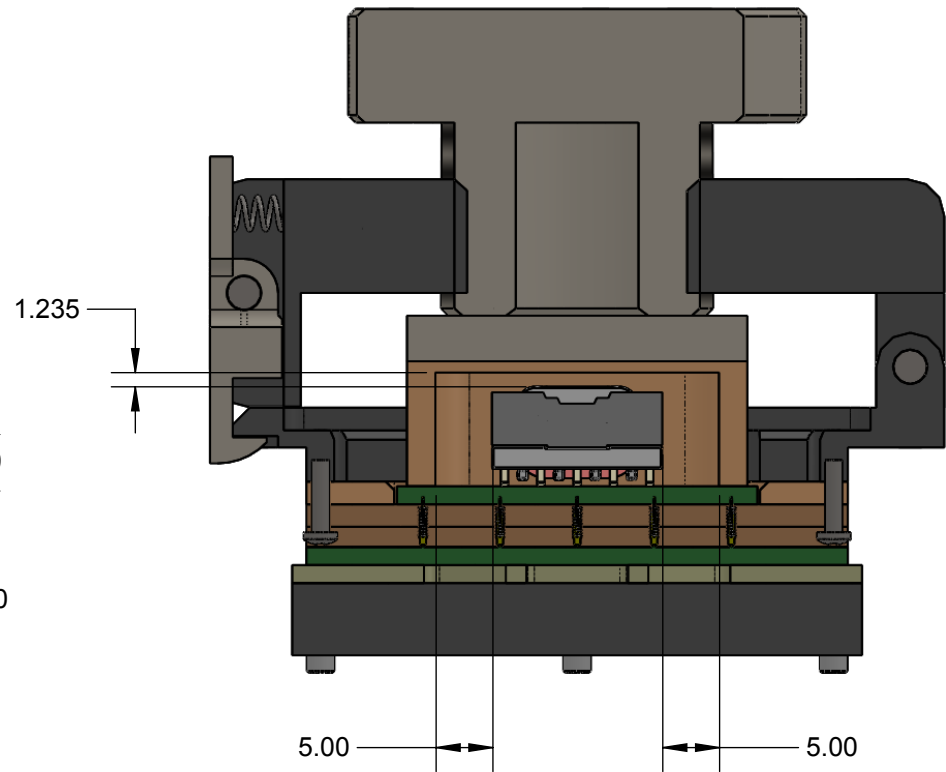
DATE: 3/15/13

REV. A

SCALE: 1:1



CUT AWAY TOP VIEW (without the socket lid)




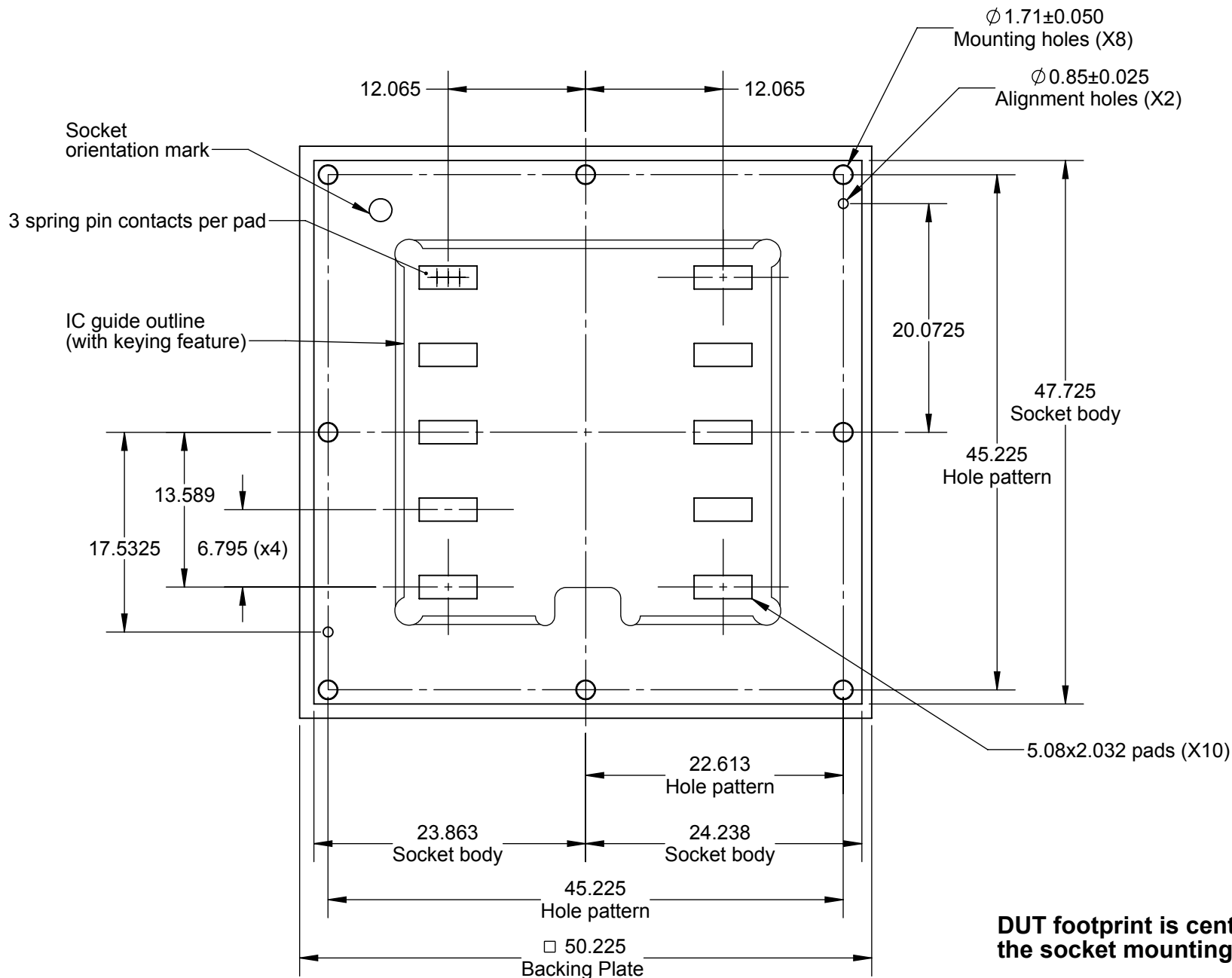
CUT AWAY SIDE VIEW

Description: CBT socket for custom transformer module

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.


CBT-LGA-5001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 244.16	STATUS: Released ENG: SF FILE: CBT-LGA-5001 Dwg	SHEET: 2 OF 5 DRAWN BY: S. Delano DATE: 3/15/13	REV. A SCALE: 1.5:1

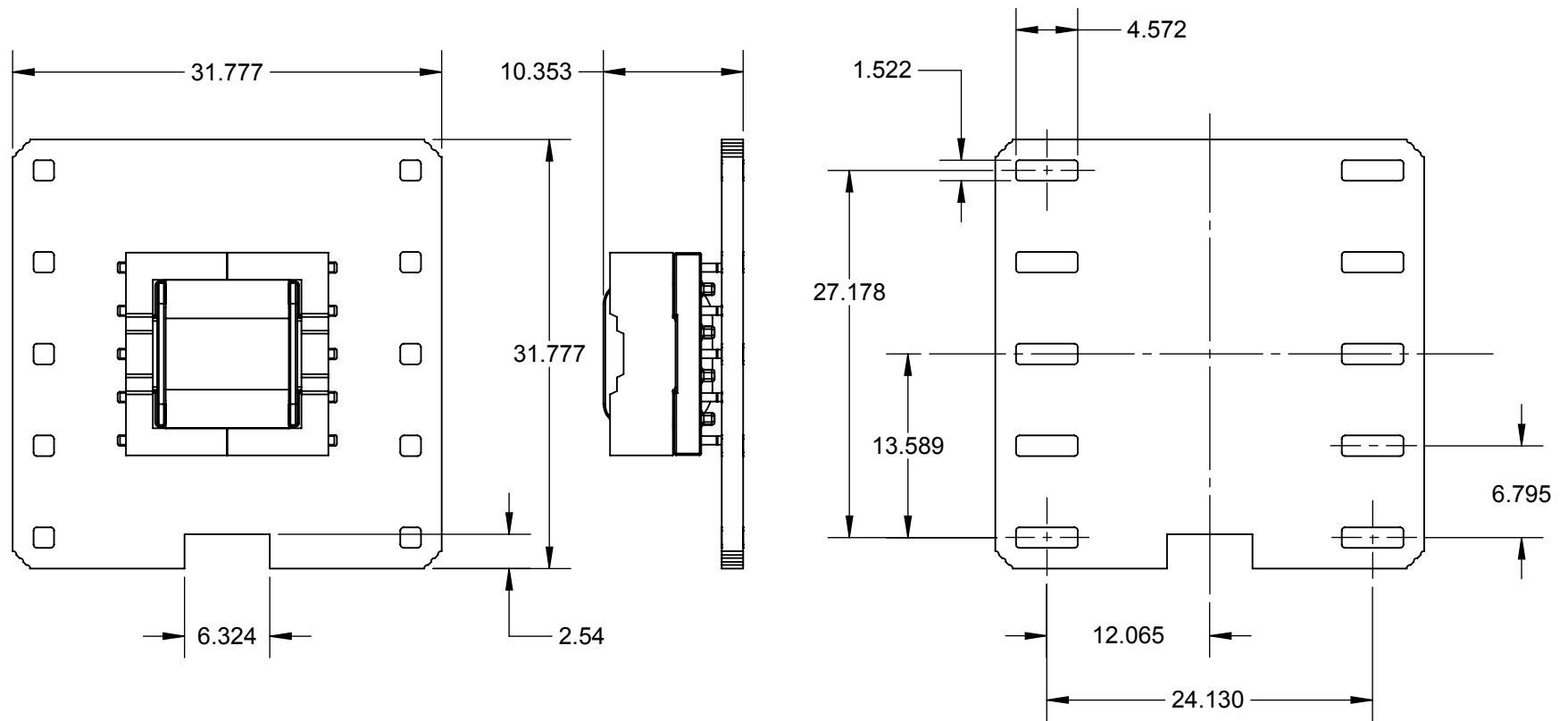


Description: Recommended PCB Layout

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.

CBT-LGA-5001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 244.16	STATUS: Released ENG: SF FILE: CBT-LGA-5001 Dwg	SHEET: 3 OF 5 DRAWN BY: S. Delano DATE: 3/15/13	REV. A SCALE: 2:1




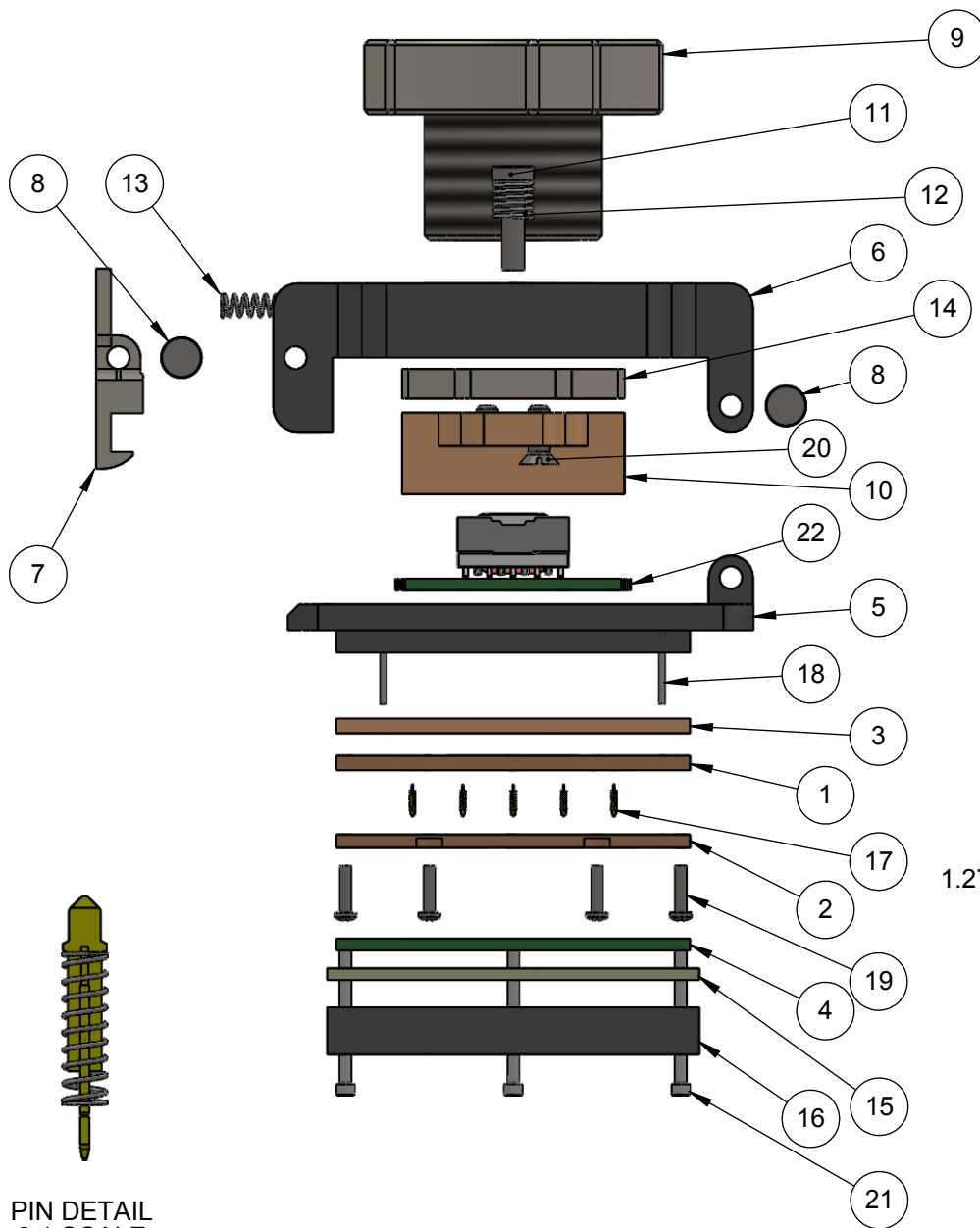
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall exclude any effect of mark on top surface of package.

Description: Compatible Device

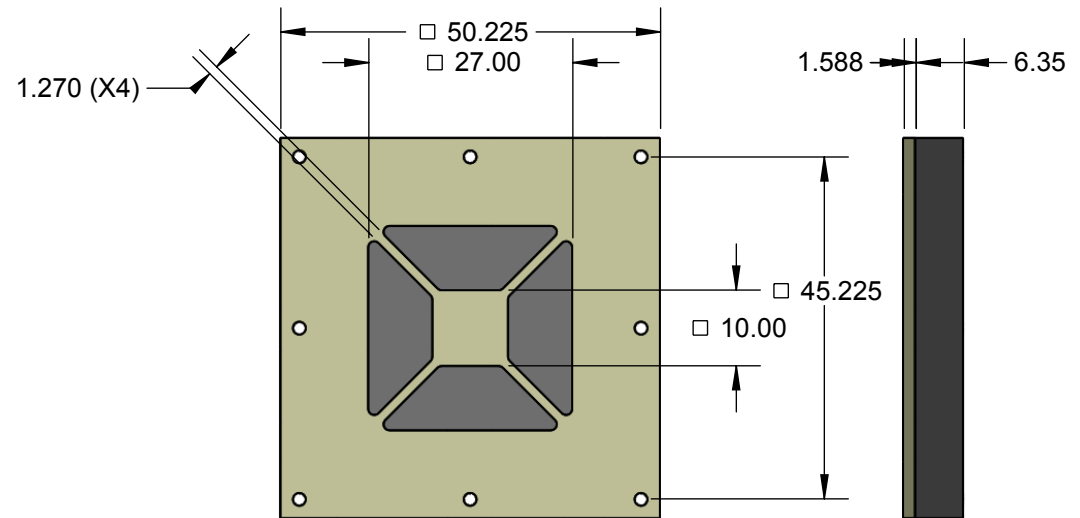
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

CBT-LGA-5001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 244.16	STATUS: Released ENG: SF FILE: CBT-LGA-5001 Dwg	SHEET: 4 OF 5 DRAWN BY: S. Delano DATE: 3/15/13	REV. A SCALE: 2:1



ITEM NO.	DESCRIPTION	MATERIAL
1	Top Guide for 1mm pitch spring pin	Semitron MDS 100
2	Bottom Guide 1mm pitch Pogo pin	Semitron MDS 100
3	IC Guide	Ultem 1000
4	PCB for LGA custom module 31.75mm sq.	FR4 Standard
5	Socket Base	7075-T6 Aluminum Alloy
6	Clam Shell	7075-T6 Aluminum Alloy
7	Latch	7075-T6 Aluminum Alloy
8	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
9	Compression Screw	7075-T6 Aluminum Alloy
10	Compression Plate Bottom 30mm	Ultem 1000
11	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
12	Spring Clamshell lid assembly	Steel Music Wire
13	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
14	compression plate top	7075-T6 Aluminum Alloy
15	Insulation Plate, 50.225 X 50.225	FR4
16	Backing Plate	7075-T6 Aluminum Alloy
17	Pogo Pin, 1mm Pitch SBT LGA pin	Material <not specified>
18	Dowel Pin, 1/32" x 3/8", SS	Chrome Stainless Steel
19	Screw, #0-80 x .25", Pan, SS	Material <not specified>
20	18-8 ss, Flat hd, Slotted, 4-40, 5/16" lg	Stainless Steel (18-8)
21	#0-80 X .75 LG, SOC HD CAP SCREW, 18-8 SS	Stainless Steel (18-8)
22	DUT PCB	Material <not specified>
23	Custom Transformer module	N/A



PIN DETAIL
8:1 SCALE

Description: Socket Assy, Insulation Plate

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.

CBT-LGA-5001 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 244.16

STATUS: Released

ENG: SF

FILE: CBT-LGA-5001 Dwg

SHEET: 5 OF 5

DRAWN BY: S. Delano

DATE: 3/15/13

REV. A

SCALE: 1:1