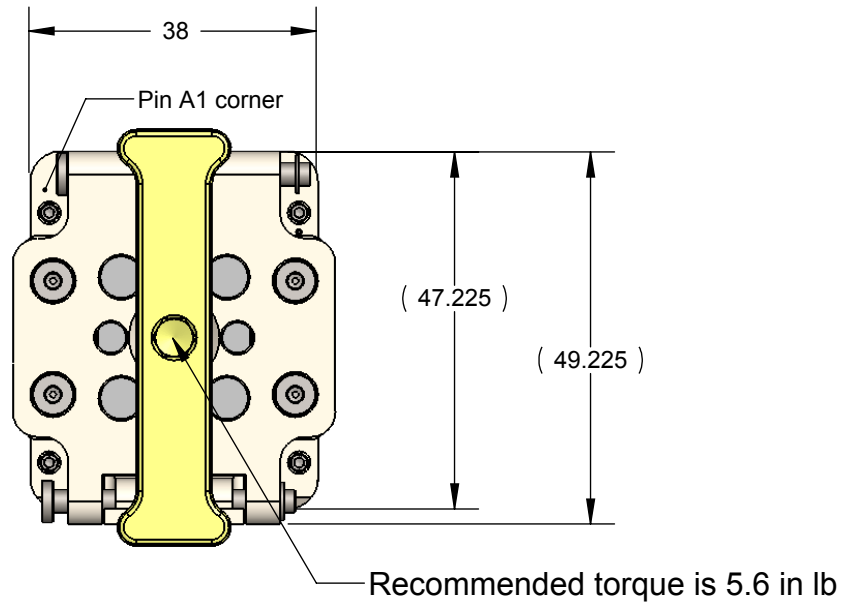
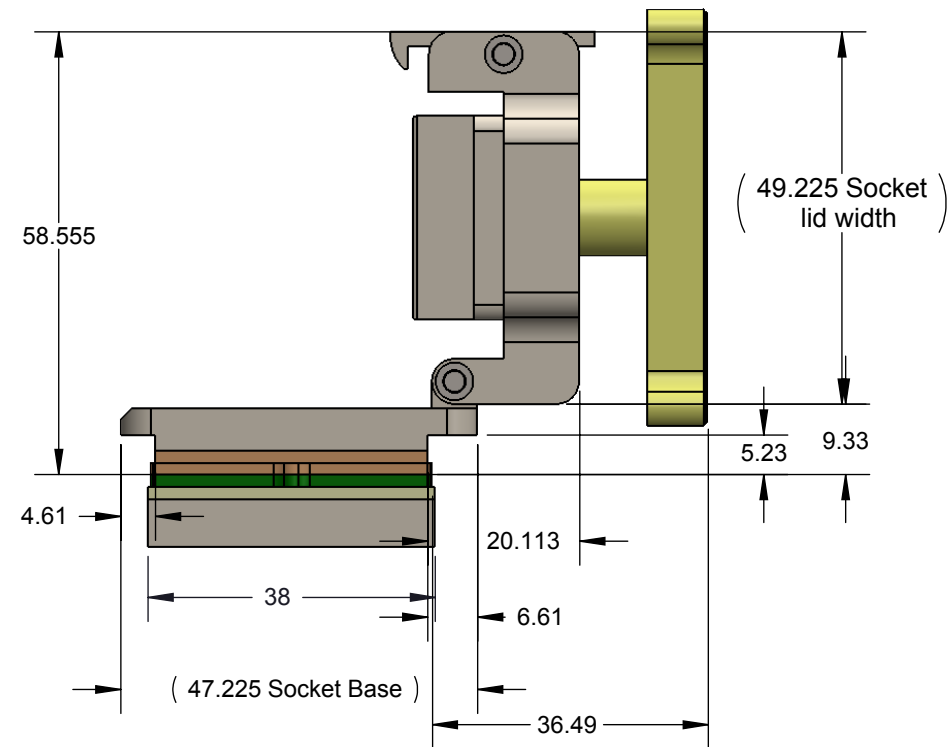
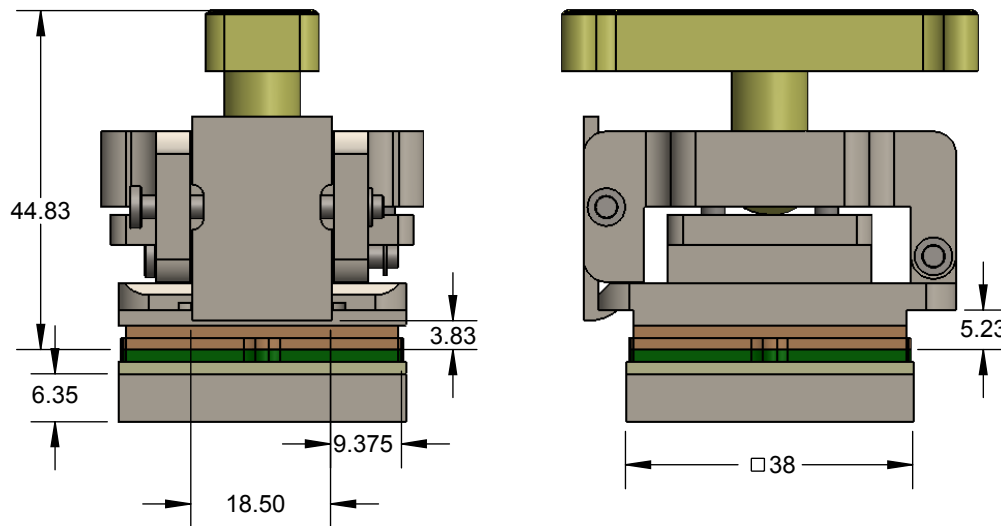


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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-LGA675 27 x 27mm, 26x26 1mm pitch

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-5010 Drawing



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

Material: Material <not specified>
Finish:
Weight: 142.64

STATUS: Released

ENG: E. Smolentseva

FILE: CBT-LGA-5010 Dwg

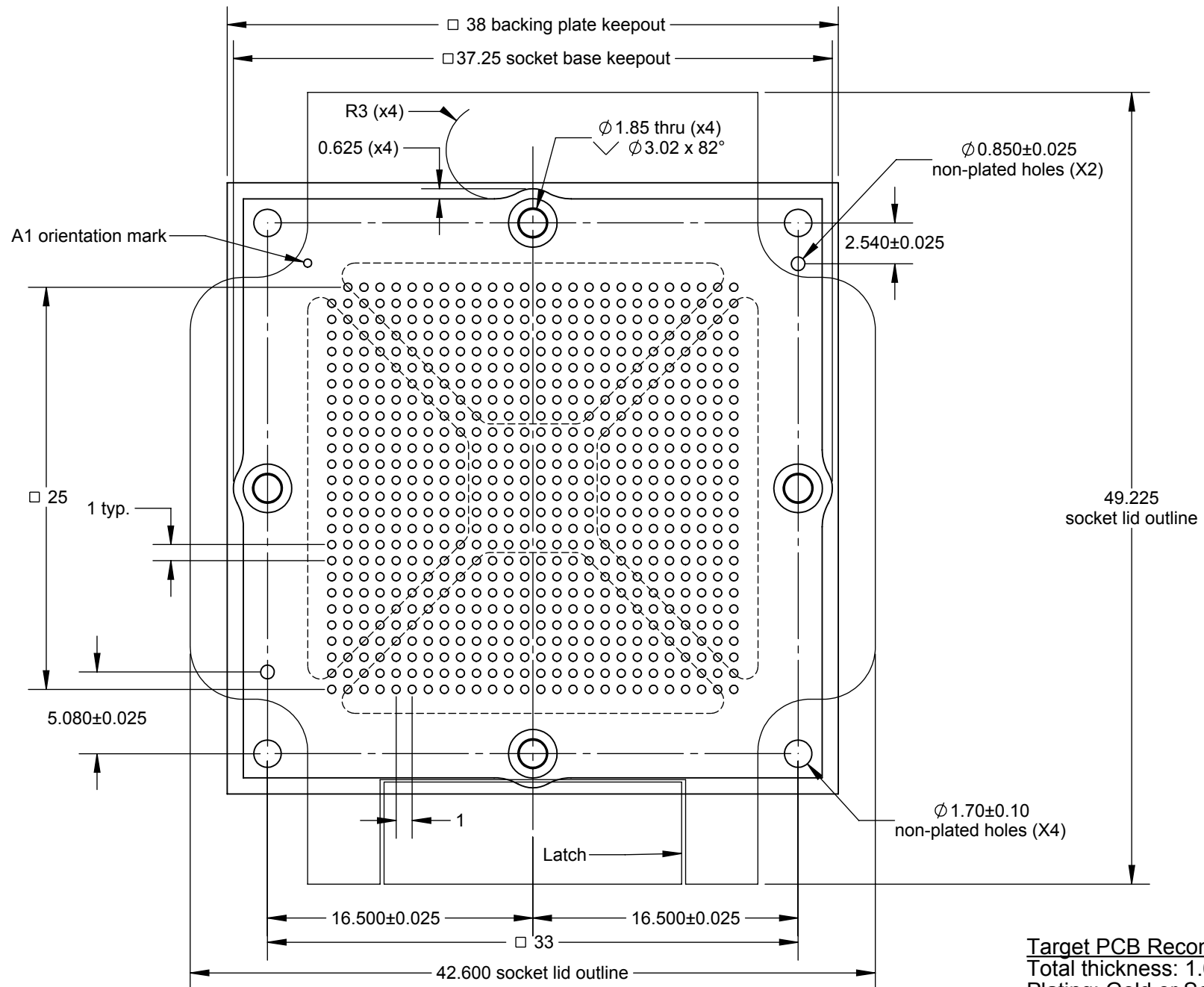
SHEET: 1 OF 5

DRAWN BY: M. Raske

DATE: 5/15/2015

REV. A

SCALE: 1:1




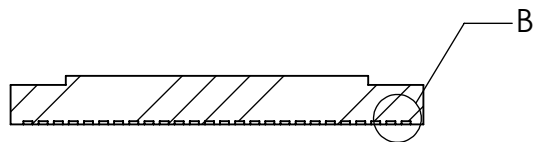
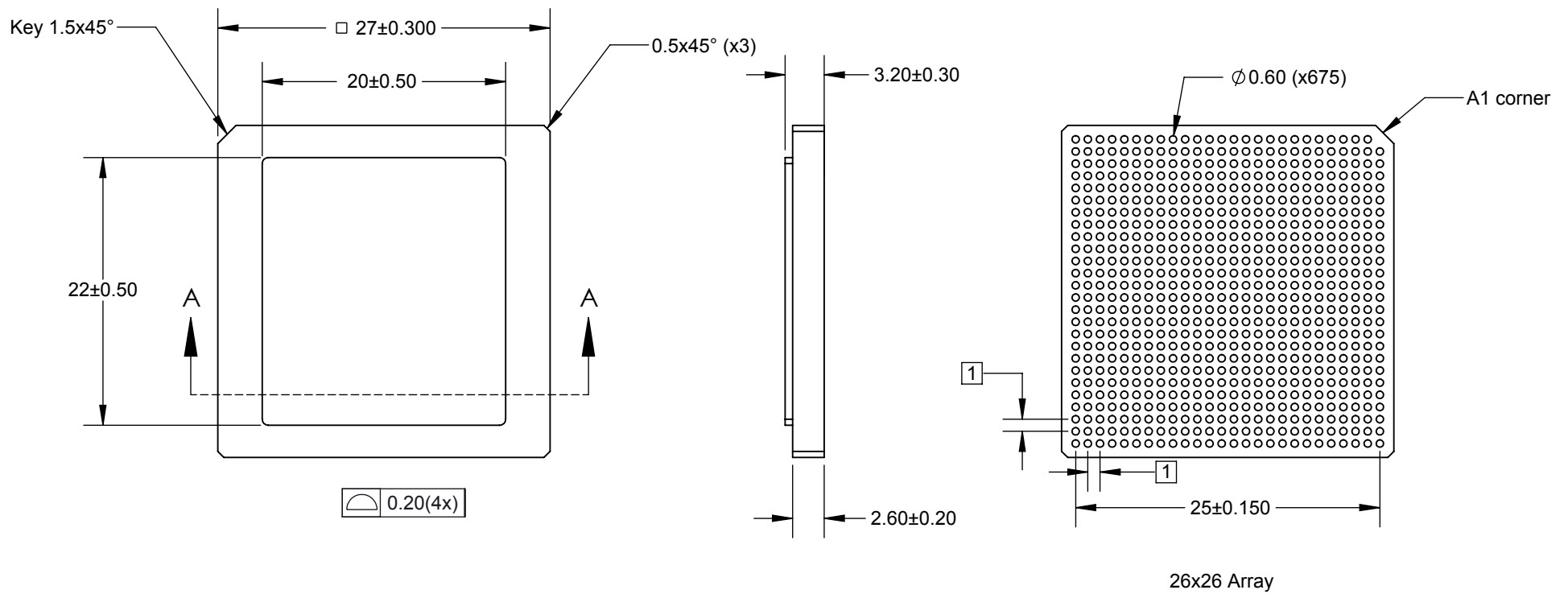
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB pad height: same or higher
 than solder mask

Description: Recommended PCB layout

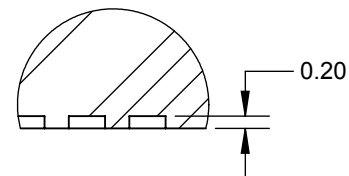
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

CBT-LGA-5010 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 142.64	STATUS: Released ENG: E. Smolentseva FILE: CBT-LGA-5010 Dwg	SHEET: 2 OF 5 DRAWN BY: M. Raske DATE: 5/15/2015	REV. A SCALE: 2.85:1



SECTION A-A
SCALE 2 : 1




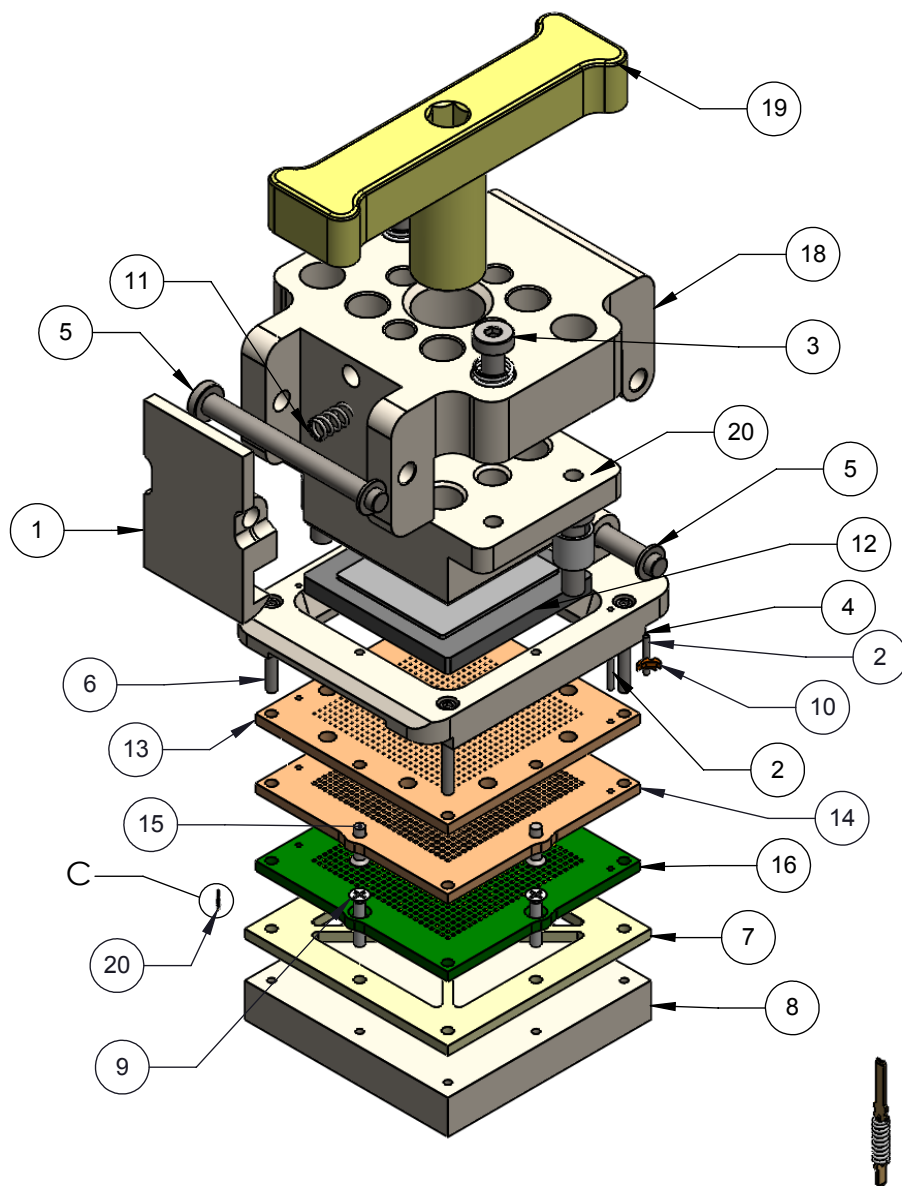
DETAIL B
SCALE 8 : 1

Description: LGA

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.

CBT-LGA-5010 Drawing		STATUS: Released	SHEET: 3 OF 5	REV. A
 <p>Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	Material: Material <not specified>	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1
	Finish:	FILE: CBT-LGA-5010 Dwg	DATE: 5/15/2015	
	Weight: 142.64			



DETAIL C
SCALE 6 : 1

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.

CBT-LGA-5010 Drawing



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

Material: Material <not specified>
Finish:
Weight: 142.64

ITEM NO.	DESCRIPTION	Material
1	Latch	7075-T6 Aluminum Alloy
2	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
3	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
4	CBT socket base 27mm with posts	7075-T6 Aluminum Alloy
5	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
6	#0-80 x 0.5, SH Cap Screw	Alloy Steel
7	Insulation Plate 27mm IC	FR4
8	Backing Plate 27x27mm	7075-T6 Aluminum Alloy
9	Screw, #0-80 X .313", Flat, SS	stainless steel
10	Corner alignment insert	Kapton Polyimide/Cirlex
11	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
12	Customer's LGA device	Kyocera Ceramic A440
13	Top Guide 26x26 array 1mm pitch	Semitron MDS 100
14	Bottom Guide 26x26 array 1mm pitch	Semitron MDS 100
15	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
16	Customer's target PCB	FR4
17	SBT Pin, SBT-BGA 0.5mm-0.8mm	
18	Socket Lid	7075-T6 Aluminum Alloy
19	Compression Screw	7075-T6 Aluminum Alloy
20	Compression plate	7075-T6 Aluminum Alloy
21	Spring Clamshell lid assembly	Steel Music Wire

POGO PIN PROPERTIES:

MECHANICAL PROPERTIES:

- . Working Travel: 0.43mm
- . Contact Force@ working travel: 30.9 gf
- . Full Length: 3.86mm
- . Compressed Length: 3.43mm
- . Operating Temperature: -55°C to +180°C
- . Mechanical Life: 125,000+ cycles

ELECTRICAL PROPERTIES:

- . Contact Resistance: <35mohms
- . Current Rating (60C rise): 4 amp
- . Self Inductance: 0.88 nH
- . Capacitance: 0.097 pF
- . Bandwidth @ -1dB: 5.2 to 15.7 GHz

MATERIALS:

- . Stamped Contact: BeCu, Au Plate
- . Spring SS, Au Plate

STATUS: Released

ENG: E. Smolentseva

FILE: CBT-LGA-5010 Dwg

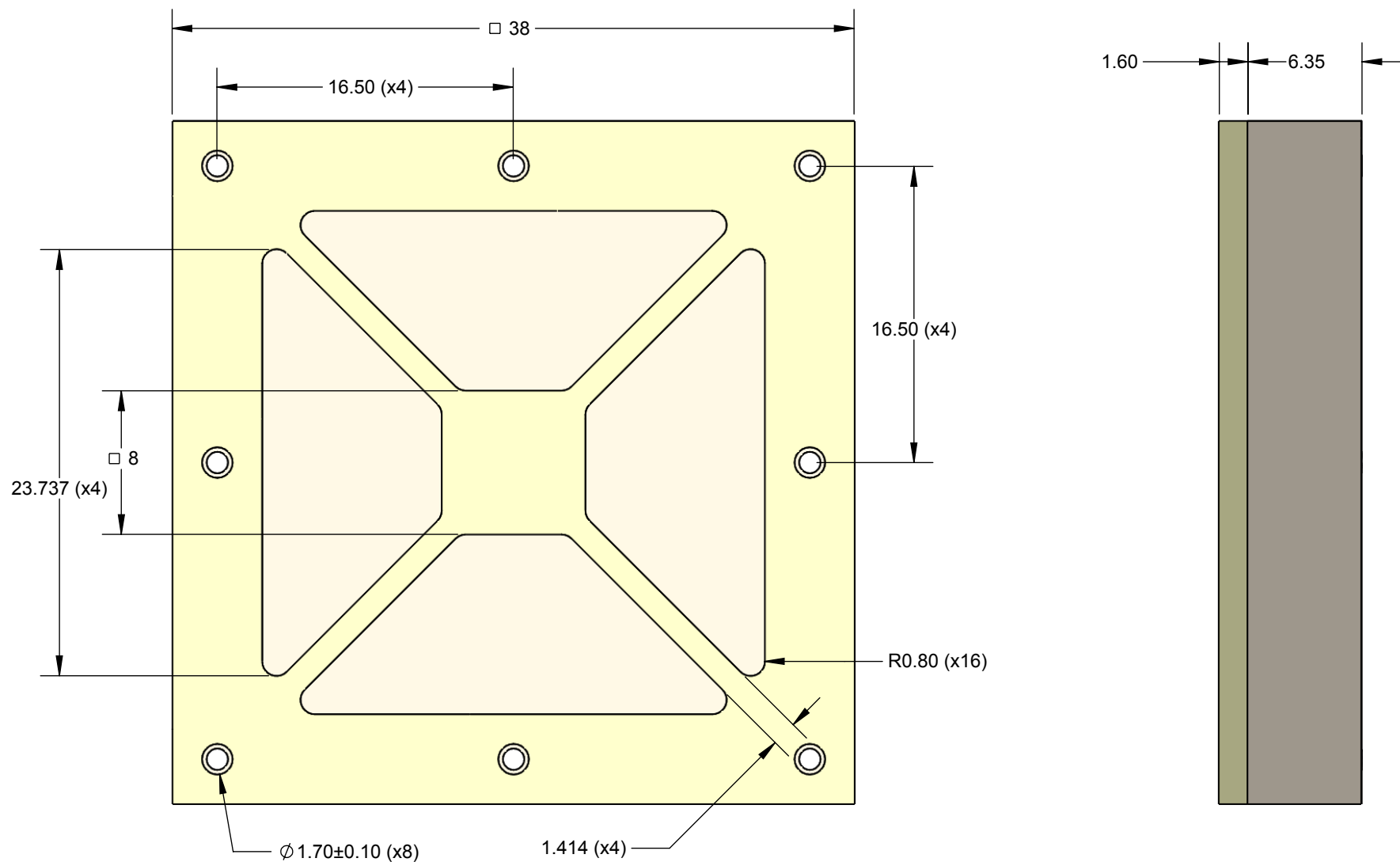
SHEET: 4 OF 5

DRAWN BY: M. Raske

DATE: 5/15/2015

REV. A

SCALE: 1:1



Description: Backing 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.

Rev	Date	Initials	Description
A	5/15/15	MR	Original

CBT-LGA-5010 Drawing		Material: Material <not specified> Finish: Weight: 142.64	STATUS: Released	SHEET: 5 OF 5	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
			FILE: CBT-LGA-5010 Dwg	DATE: 5/15/2015	