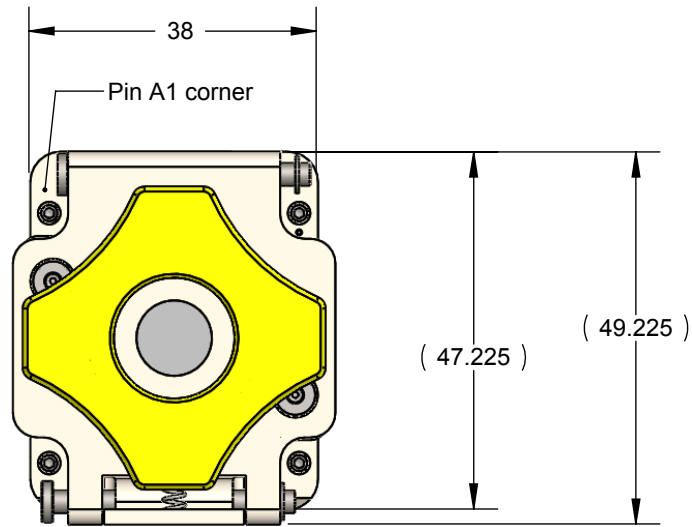
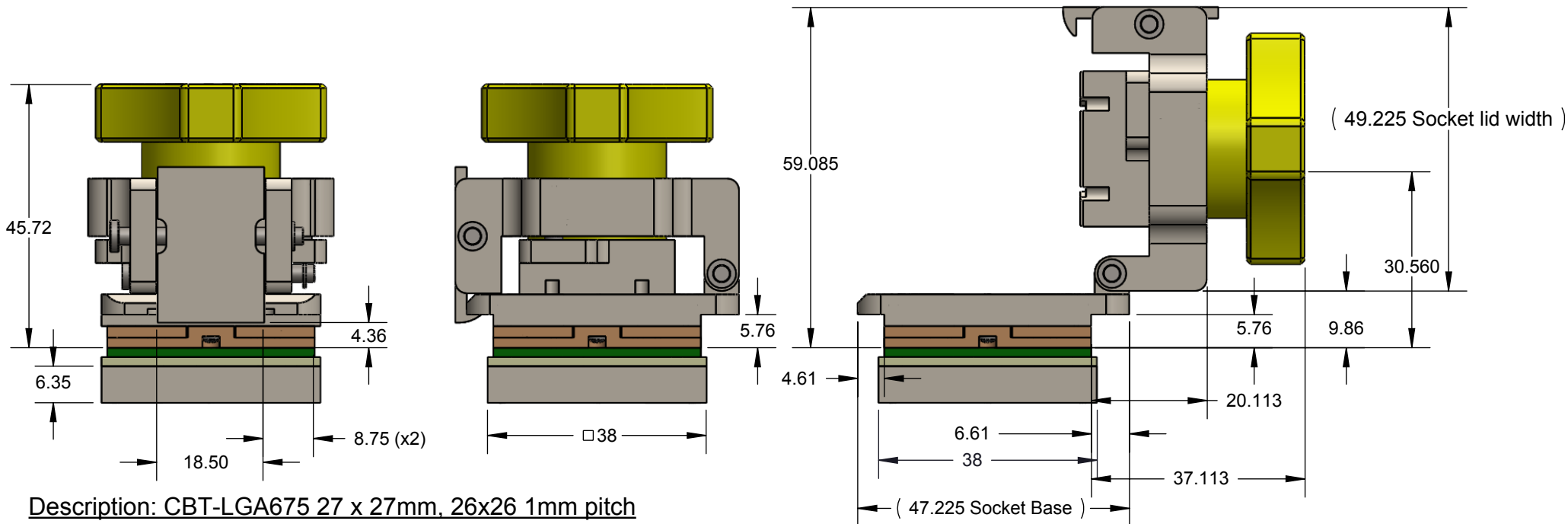


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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-5004 Drawing



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

Material: Material <not specified>
Finish:
Weight: 153.93

STATUS: Released

ENG: E. Smolentseva

FILE: CBT-LGA-5004 Dwg

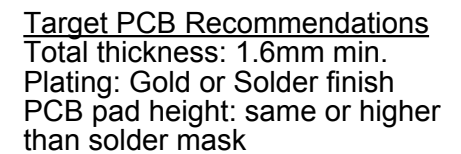
SHEET: 1 OF 5


DRAWN BY: M. Raske

DATE: 11/20/2013

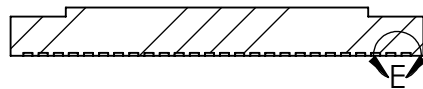
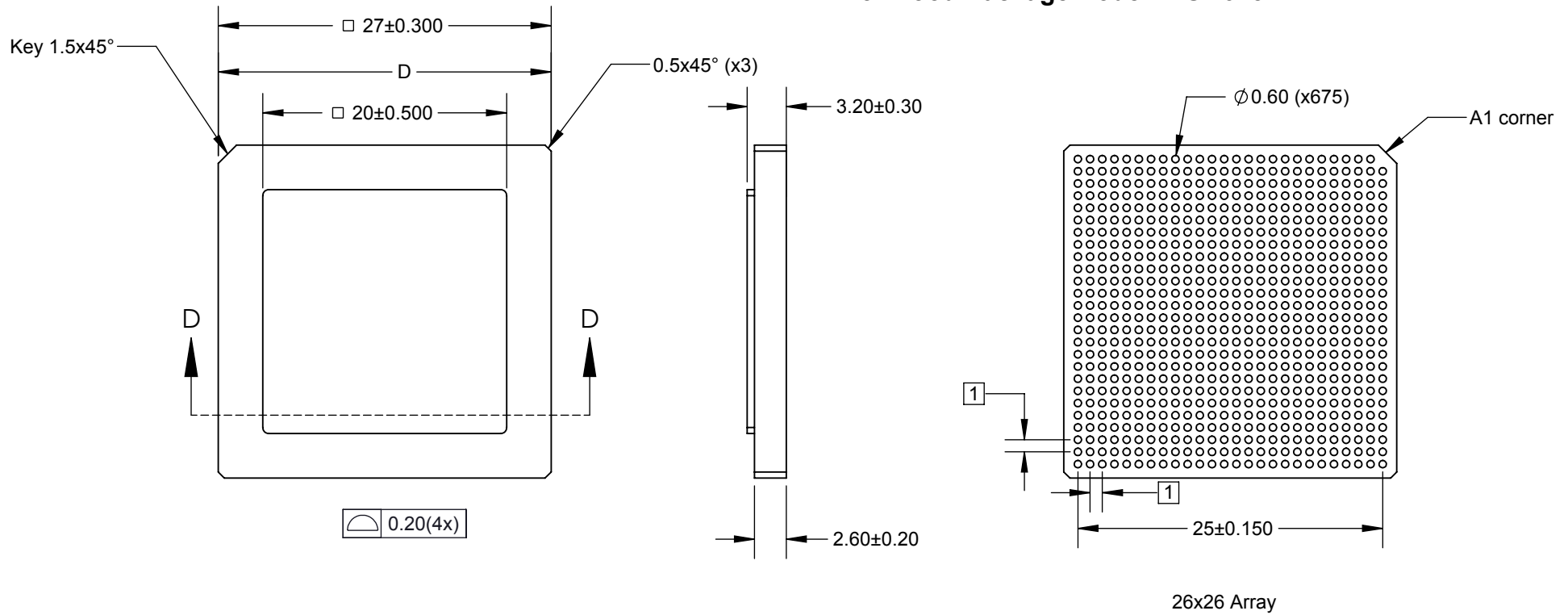
REV. A

SCALE: 1:1

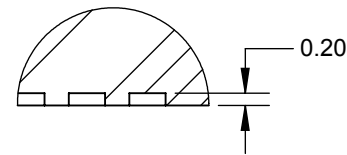


 CBT-LGA-5004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 153.93	STATUS: Released	SHEET: 2 OF 5	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2.85:1
		FILE: CBT-LGA-5004 Dwg	DATE: 11/20/2013	

Ironwood Package Code: BGA675A



SECTION D-D
SCALE 2 : 1




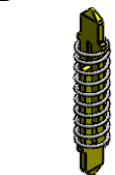
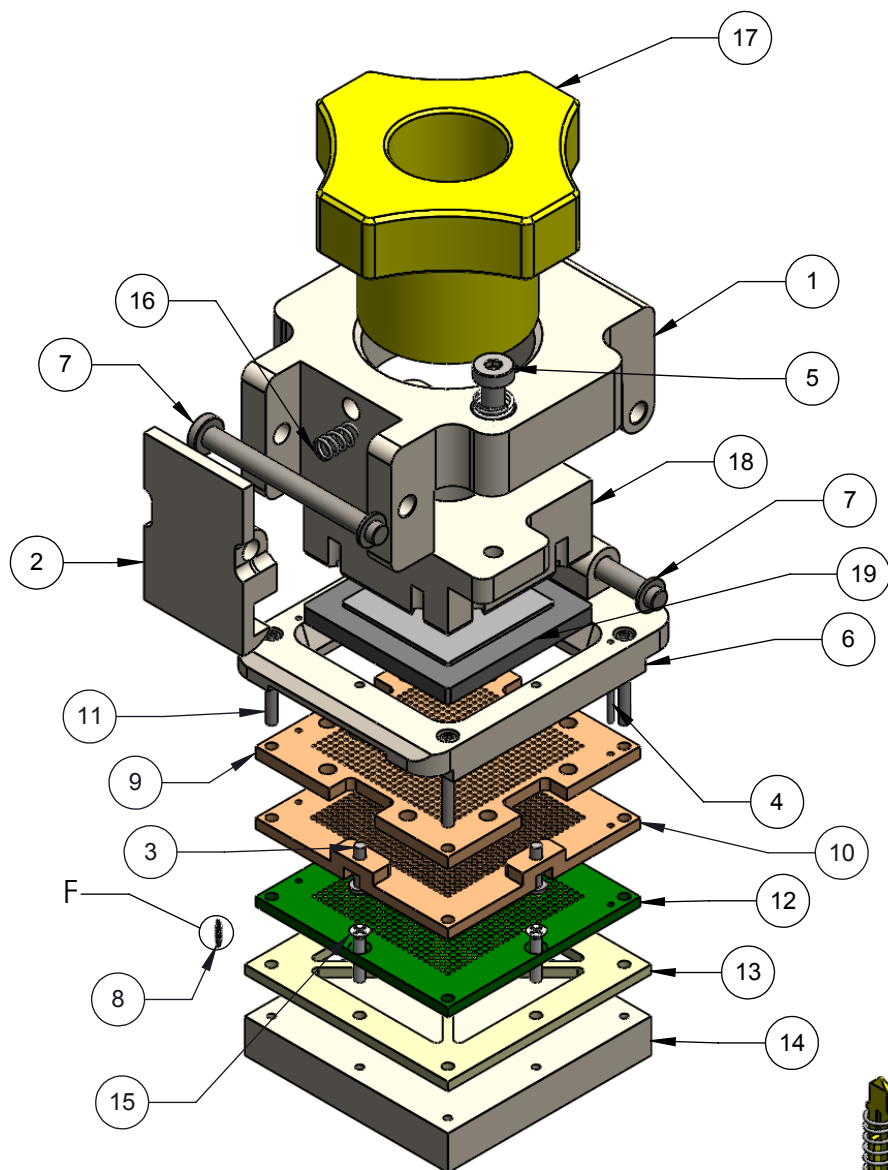
DETAIL E
SCALE 8 : 1

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-5004 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 153.93	STATUS: Released	SHEET: 3 OF 5	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1
		FILE: CBT-LGA-5004 Dwg	DATE: 11/20/2013	



DETAIL F
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.

ITEM NO.	DESCRIPTION	Material
1	Socket Lid	7075-T6 Aluminum Alloy
2	Latch	7075-T6 Aluminum Alloy
3	Screw, #0-80 x .25", Pan, SS	stainless steel
4	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
5	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
6	CBT socket base 27mm with posts	7075-T6 Aluminum Alloy
7	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
8	Pogo Pin, 1mm Pitch SBT LGA pin	Material <not specified>
9	Middle Guide 26x26 array 1mm pitch	Semitron MDS 100
10	Bottom Guide 26x26 array 1mm pitch	Semitron MDS 100
11	#0-80 x 0.5, SH Cap Screw	Alloy Steel
12	Customer's target PCB	FR4
13	Insulation Plate 27mm IC	FR4
14	Backing Plate 27x27mm	7075-T6 Aluminum Alloy
15	Screw, #0-80 X .313", Flat, SS	stainless steel
16	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
17	Compression Screw	7075-T6 Aluminum Alloy
18	Compression plate	7075-T6 Aluminum Alloy
19	Customer's LGA device	Kyocera Ceramic A440

POGO PIN PROPERTIES:

MECHANICAL PROPERTIES:

- . Pitch: 1mm (min)-1.27mm(max.)
- . Working Travel: 0.6mm
- . Contact Force@ working travel: 19 gf
- . Full Length: 4.45mm
- . Compressed Length: 3.85mm
- . Operating Temperature: -55°C to +180°C
- . Mechanical Life: 125,000+ cycles

ELECTRICAL PROPERTIES:

- . Contact Resistance: <16mohms
- . Current Rating (30C rise): 4 amp
- . Self Inductance: 0.93 nH
- . Capacitance: 0.097 pF
- . Bandwidth @ -1dB: 14.1 to 21.9 GHz

MATERIALS:

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

CBT-LGA-5004 Drawing



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

Material: Material <not specified>
Finish:
Weight: 153.93

STATUS: Released

ENG: E. Smolentseva

FILE: CBT-LGA-5004 Dwg

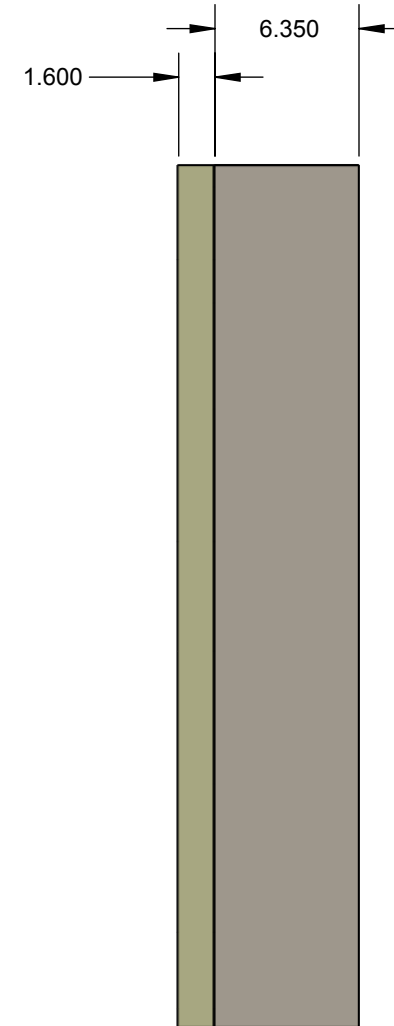
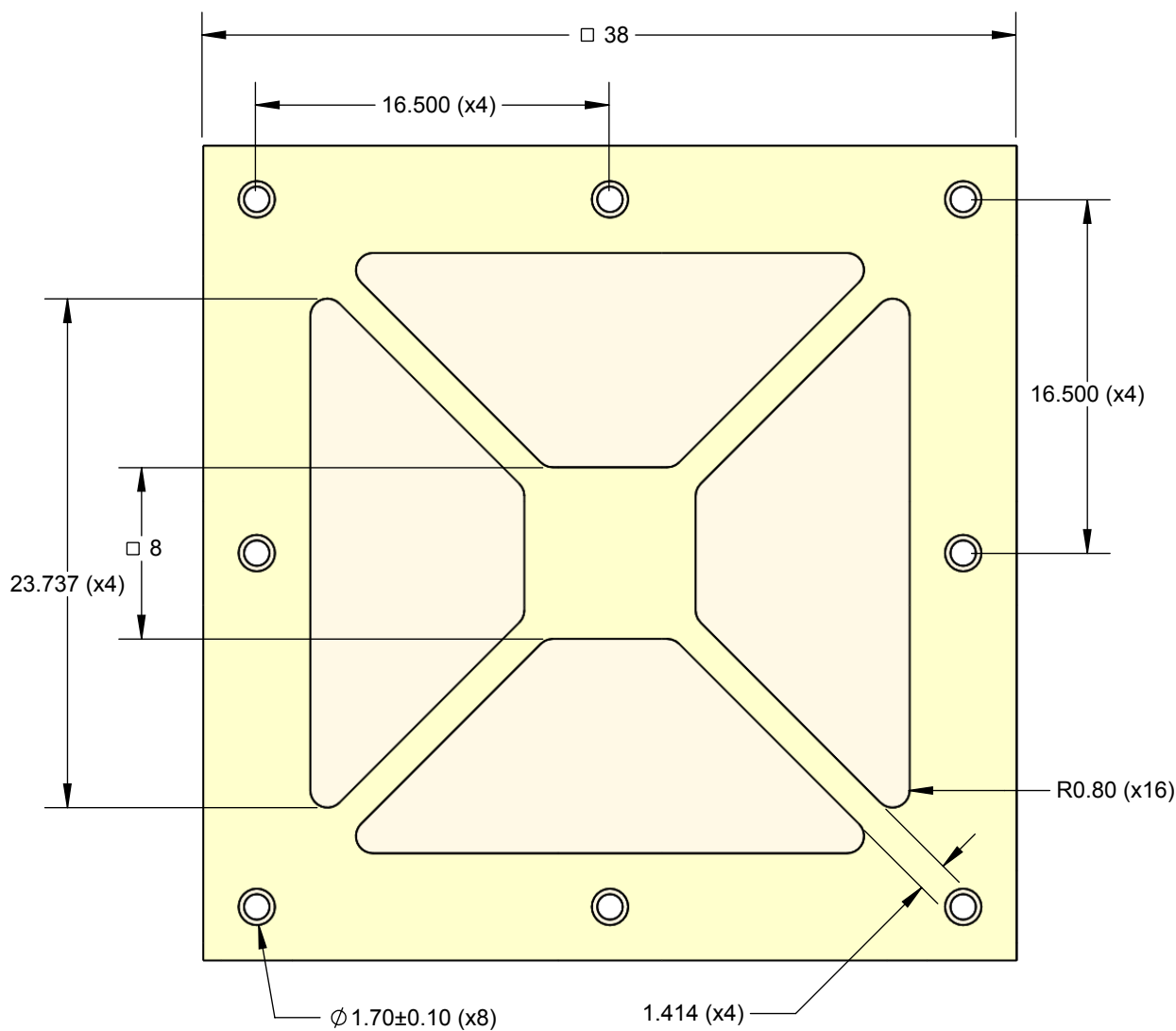
SHEET: 4 OF 5

DRAWN BY: M. Raske

DATE: 11/20/2013

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

CBT-LGA-5004 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 153.93	STATUS: Released ENG: E. Smolentseva FILE: CBT-LGA-5004 Dwg	SHEET: 5 OF 5 DRAWN BY: M. Raske DATE: 11/20/2013	REV. A SCALE: 3:1