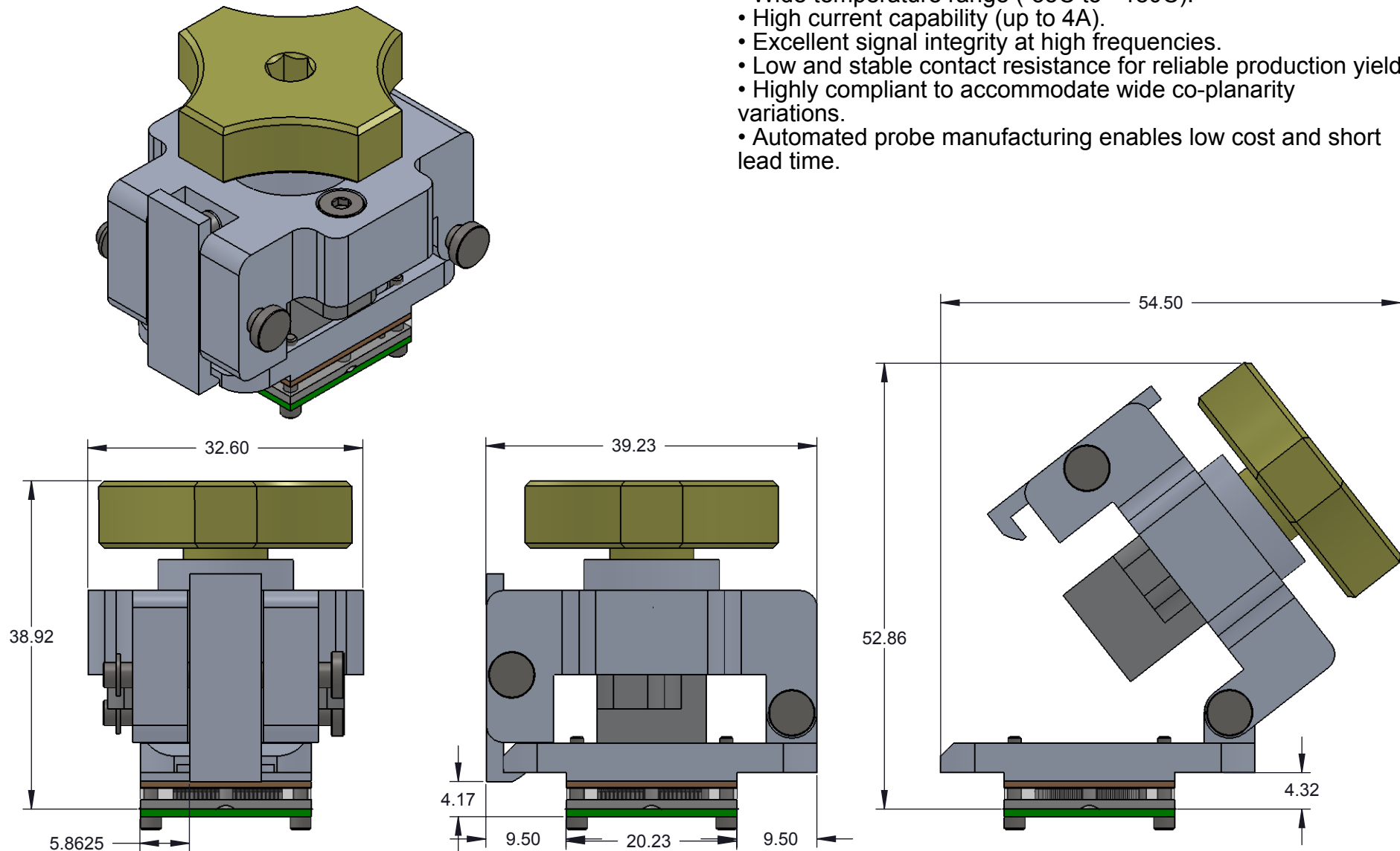


# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## 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:** Socket, 13mm x 13mm, .25 shift

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-QFN-7007 Drawing



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

Material: N/A  
Finish: N/A  
Weight: 66.48

STATUS: Released

ENG: M.A. Fedde

FILE: CBT-QFN-7007 Dwg

SHEET: 1 OF 4

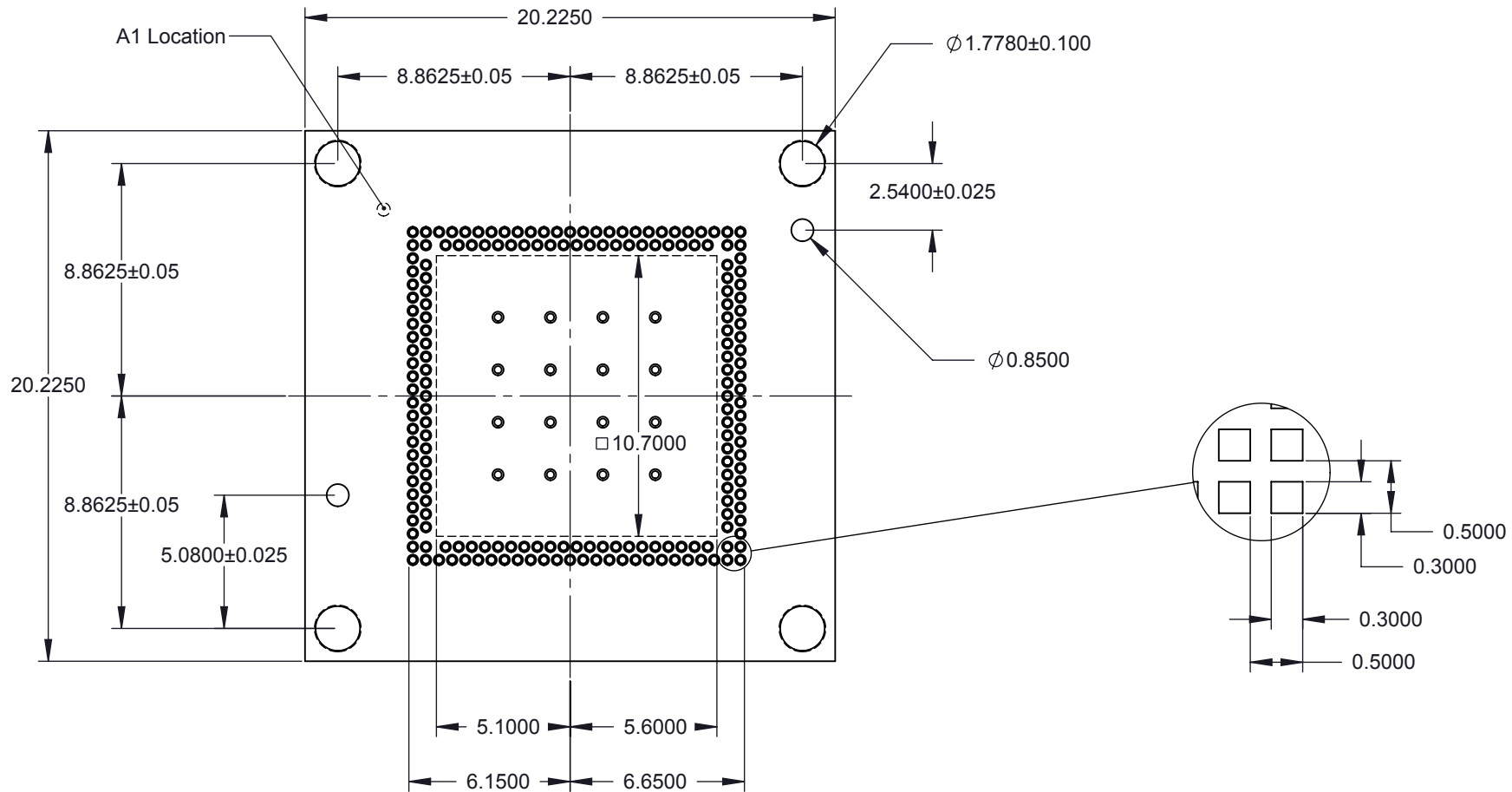
DRAWN BY: M. Raske

DATE: 4/6/2011

REV. B

SCALE: 3:2

**\*Note: QFN pattern is not symmetrical with respect to the mounting holes.**




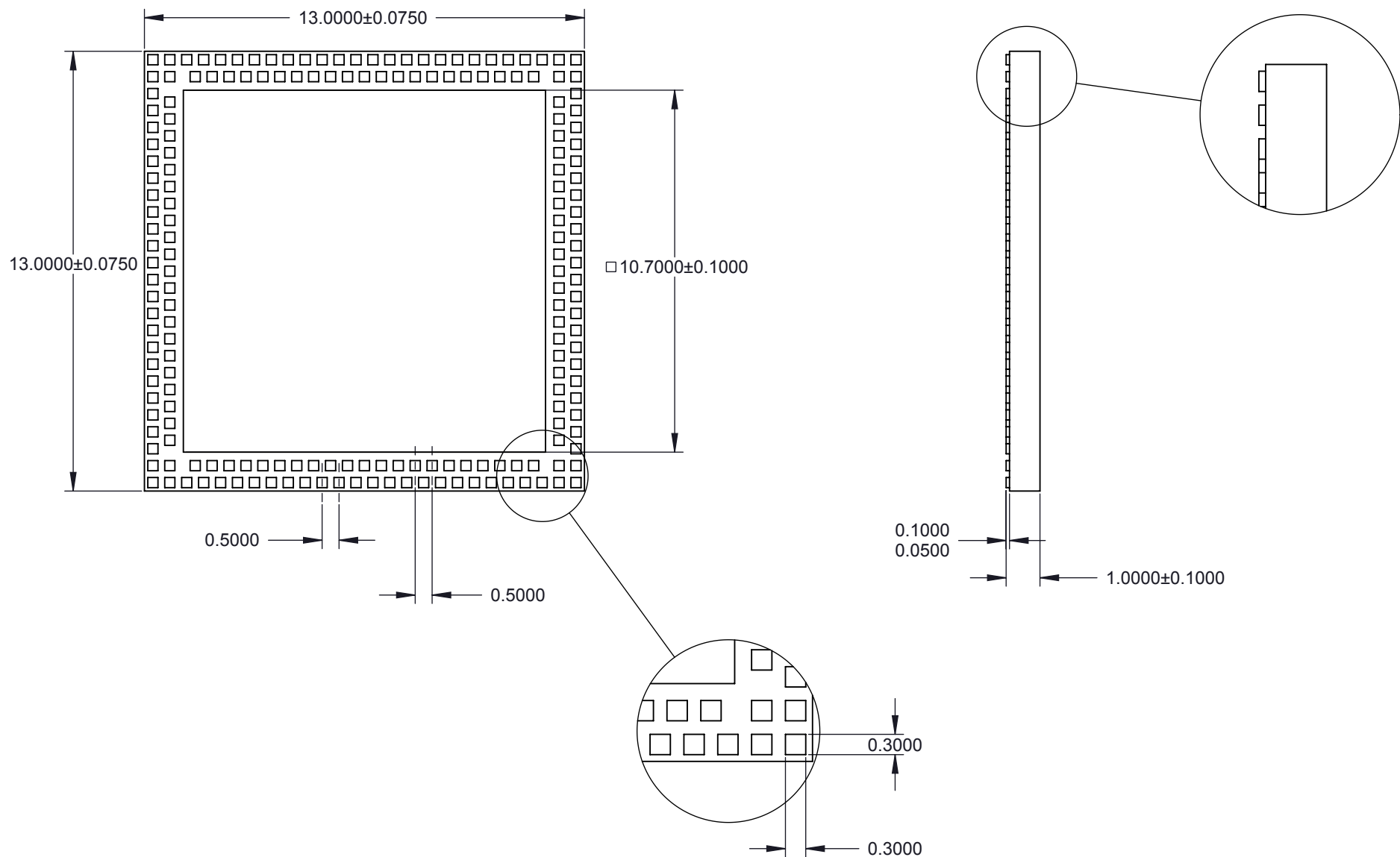
**Target PCB Recommendations**  
Total thickness: 1.5mm min.  
Plating: Gold or Solder finish

### 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>CBT-QFN-7007 Drawing</b>		STATUS: Released	SHEET: 2 OF 4	REV. B
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: M.A. Fedde	DRAWN BY: M. Raske	SCALE: 1:1
		FILE: CBT-QFN-7007 Dwg	DATE: 4/6/2011	
		Material: N/A Finish: N/A Weight: 66.48		

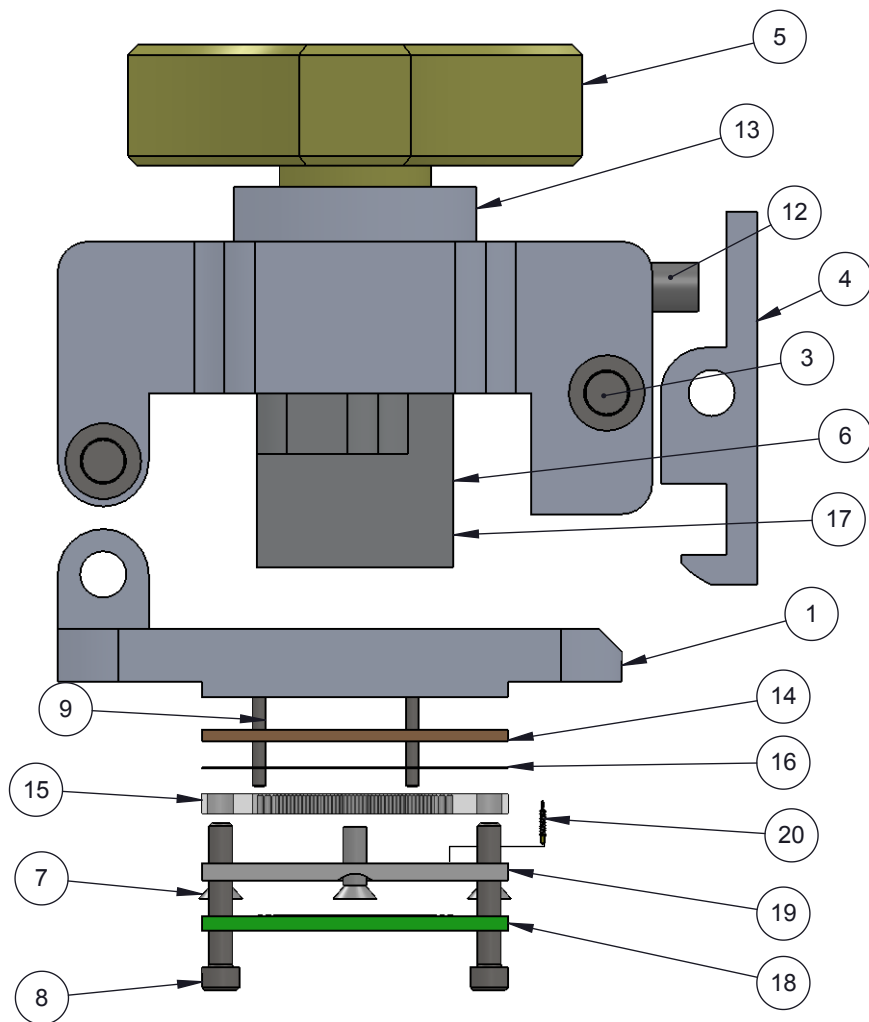


## Description: BGA

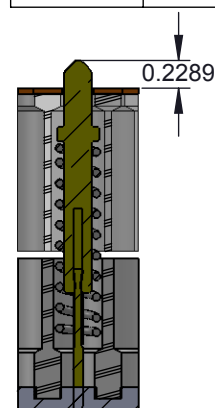
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

**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-QFN-7007 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 66.48	STATUS: Released	SHEET: 3 OF 4	REV. B
		ENG: M.A. Fedde	DRAWN BY: M. Raske	SCALE: 6:1
		FILE: CBT-QFN-7007 Dwg	DATE: 4/6/2011	



ITEM NO.	DESCRIPTION	Material
1	CBT Socket Base	7075-T6 Aluminum Alloy
2	Ni plated Clam shell socket lid for 17mm IC	7075-T6 Aluminum Alloy
3	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
4	Latch	7075-T6 Aluminum Alloy
5	CBT Ni plt COMP SCREW 17MM IC M10	7075-T6 Aluminum Alloy
6	CBT Ni plated compression plate; for 13mm x13mm IC	7079 Alloy
7	Screw, #0-80 X .188", Flat, SS	Stainless Steel (18-8)
8	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
9	Dowel pin, 1/32" X .25", SS	Chrome Stainless Steel
10	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
11	Spring Clamshell lid assembly	Steel Music Wire
12	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
13	Compression Stopper for C8890	7075-T6 Aluminum Alloy
14	IC Guide 13mm IC 0.75mm thick	Ultem 1000
15	Top Guide 188 lead 2 row 0.5mm pitch	PEEK Ceramic filled
16	Lead guide 188 lead 2 row 0.5mm pitch	Kapton Polyimide
17	Test Chip	Material <not specified>
18	Test PCB	Material <not specified>
19	Bottom Guide 188 lead 2 row 0.5mm pitch	PEEK Ceramic filled
20	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni




Pin Detail

Rev	Date	Initials	Description
A	04/06/11	MR	Original
B	02/18/14	DH	Changed current rating of pin

## Description: Skt, Insulation Plate, Pin Det

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-QFN-7007 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		Material: N/A Finish: N/A Weight: 66.48	STATUS: Released ENG: M.A. Fedde FILE: CBT-QFN-7007 Dwg	SHEET: 4 OF 4 DRAWN BY: M. Raske DATE: 4/6/2011	REV. B SCALE: 1:1
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