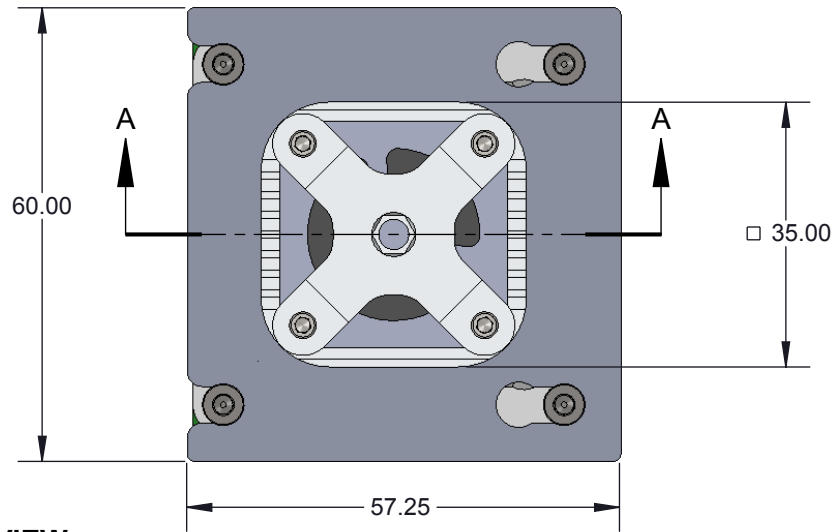


GT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATION

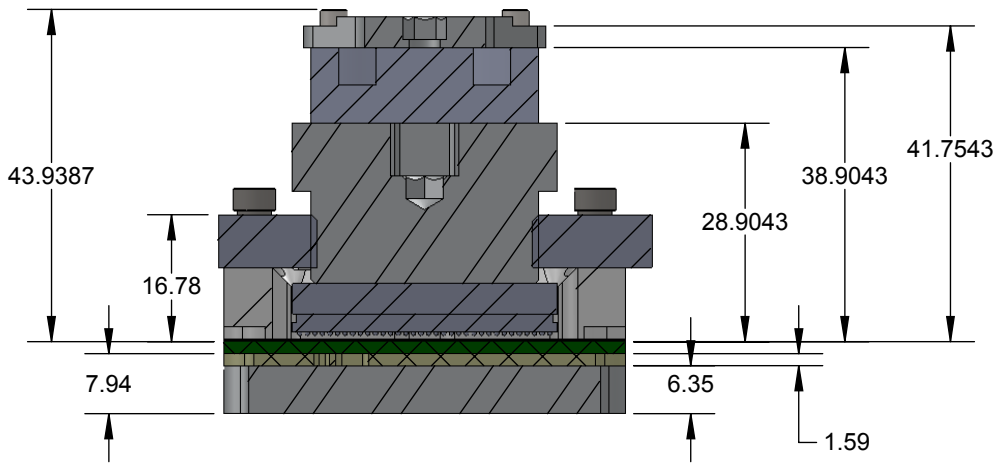
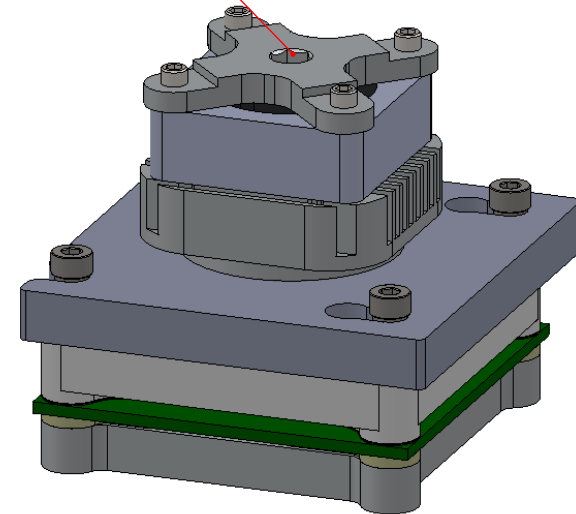
Features

- Wide temperature range (-55C to +160C).
- Current capability is 5A per pin.
- Low and stable contact resistance for reliable production yield.
- Easily removable swivel socket lid



TOP VIEW

Recommended torque = 40 in lbs




SECTION A-A

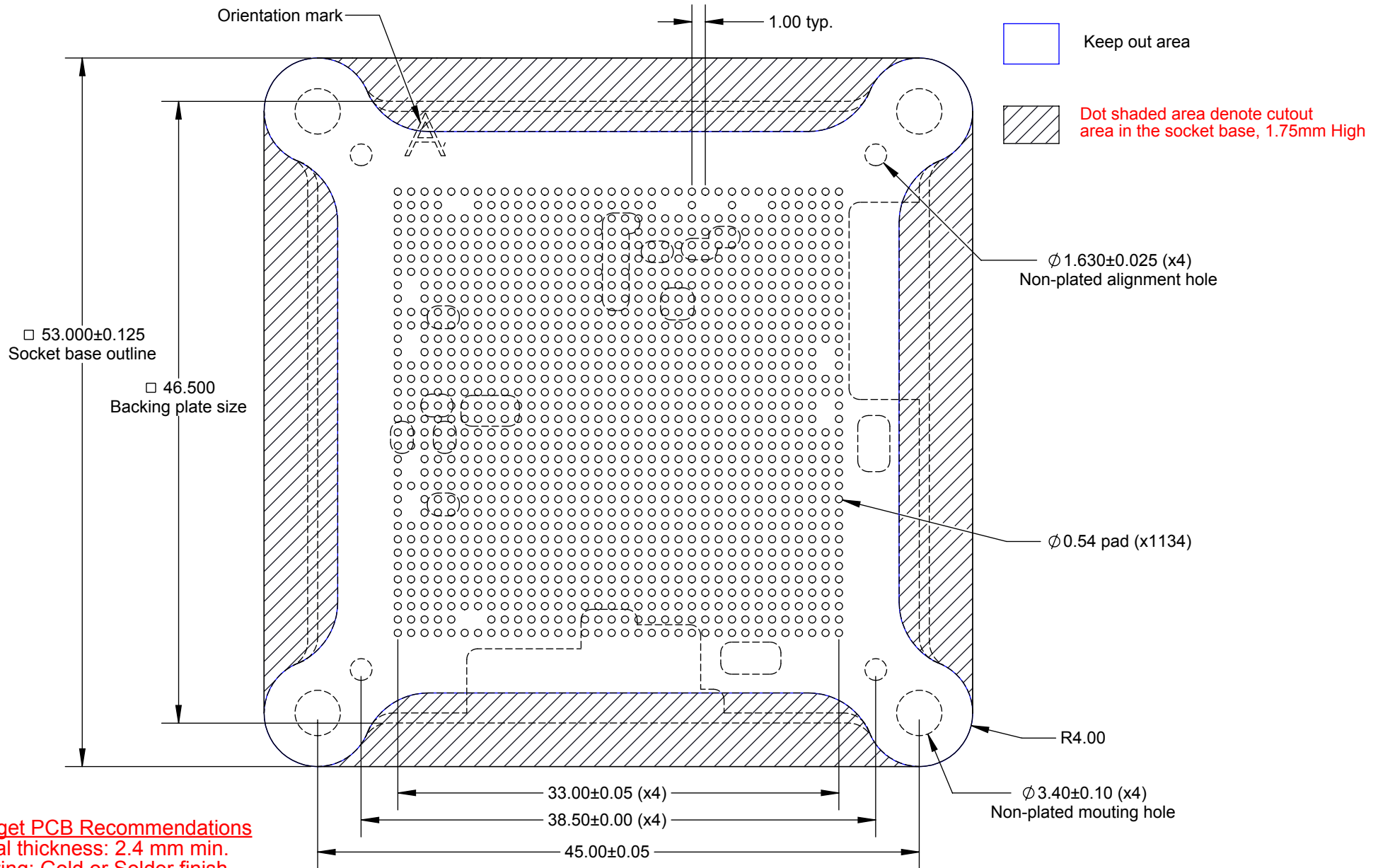
Note: Depending on the mounting hole features of the fan, the socket assembly may only require 3 screws to attach the top torque bar.

Description: GT-BGA1134 Socket 1mm pitch 35mm 34x34 array IC with heat sink and fan

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.

 GT-BGA-2017 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 203.81	STATUS: Released ENG: S. Huang FILE: GT-BGA-2017 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 02/20/2015	REV. A SCALE: 1:1



Target PCB Recommendations

Total thickness: 2.4 mm min.

Plating: Gold or Solder finish.


PCB Pad height: Same or higher than solder mask.

NOTE: Steel backing plate may be required based on end user's application.

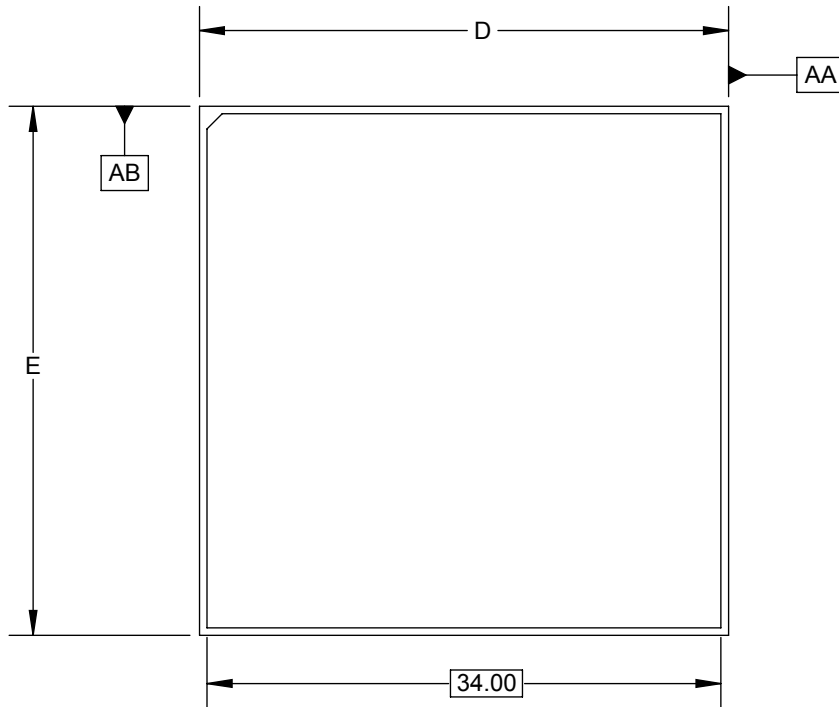
Description: Recommended PCB Layout

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

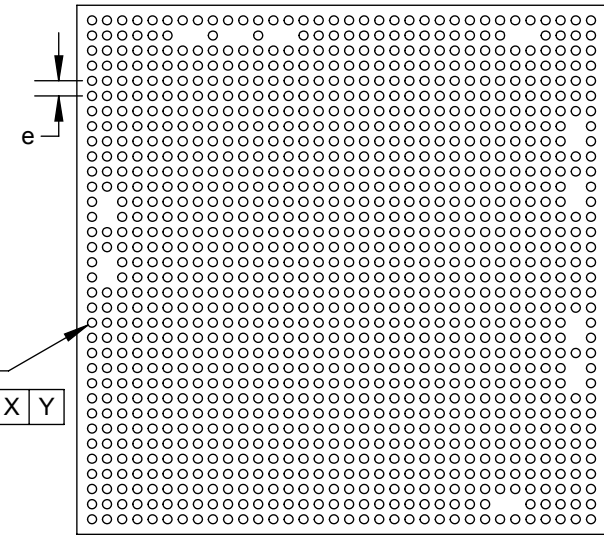
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>GT-BGA-2017 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 203.81</p>	<p>STATUS: Released ENG: S. Huang FILE: GT-BGA-2017 Dwg</p>	<p>SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 02/20/2015</p>	<p>REV. A SCALE: 2.5:1</p>

IRONWOOD PACKAGE CODE: BGA1134A



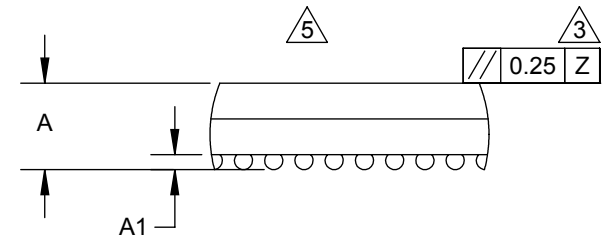
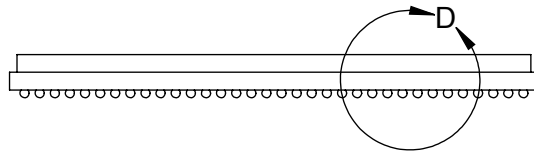
Top View



Bottom View

ϕ	0.25	Z	X	Y
ϕ	0.10	Z		

Side View



**DETAIL D
SCALE 4 : 1**


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

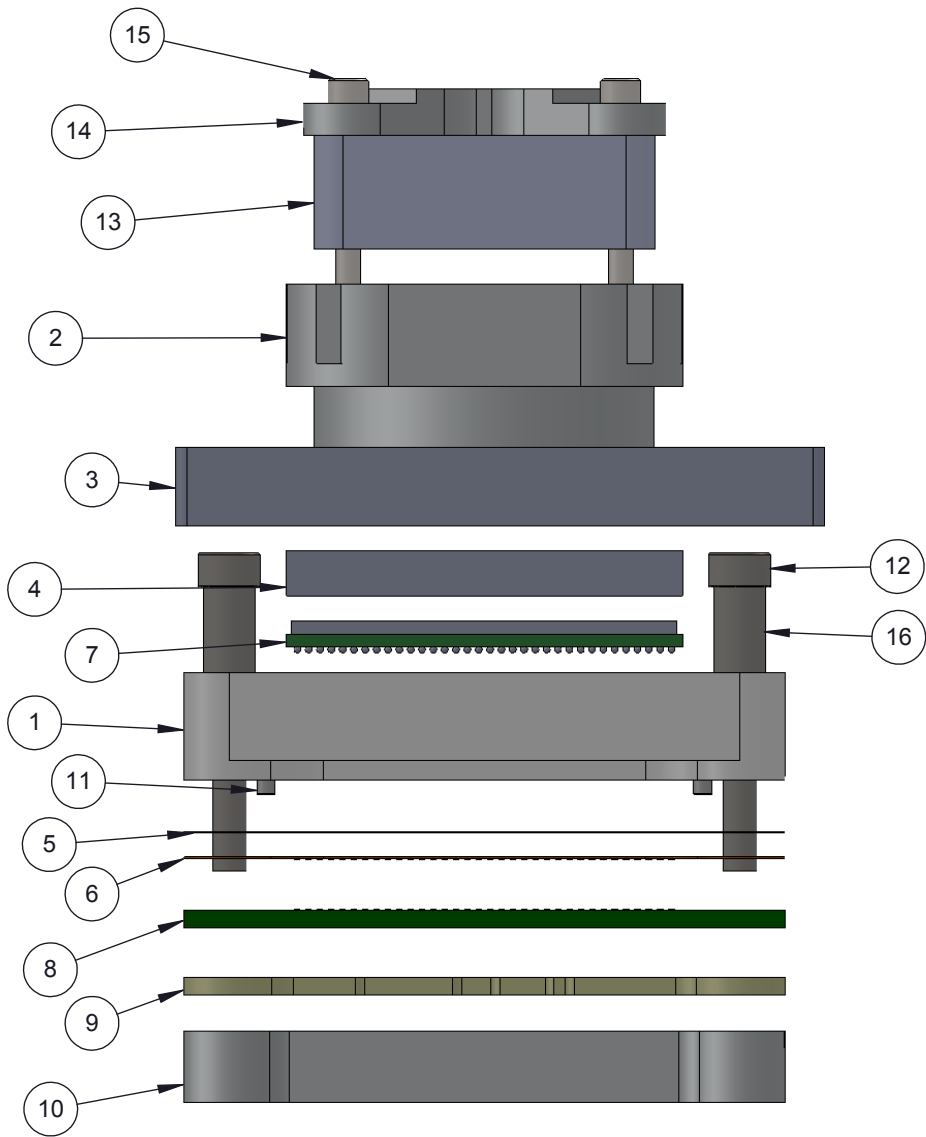
DIM	MIN	MAX
A	2.56	3.16
A1	0.4	0.6
b	0.5	0.7
D	34.8	35.2
E	34.8	35.2
e	1.00	

Array: 34x34

Description: Compatible BGA Spec

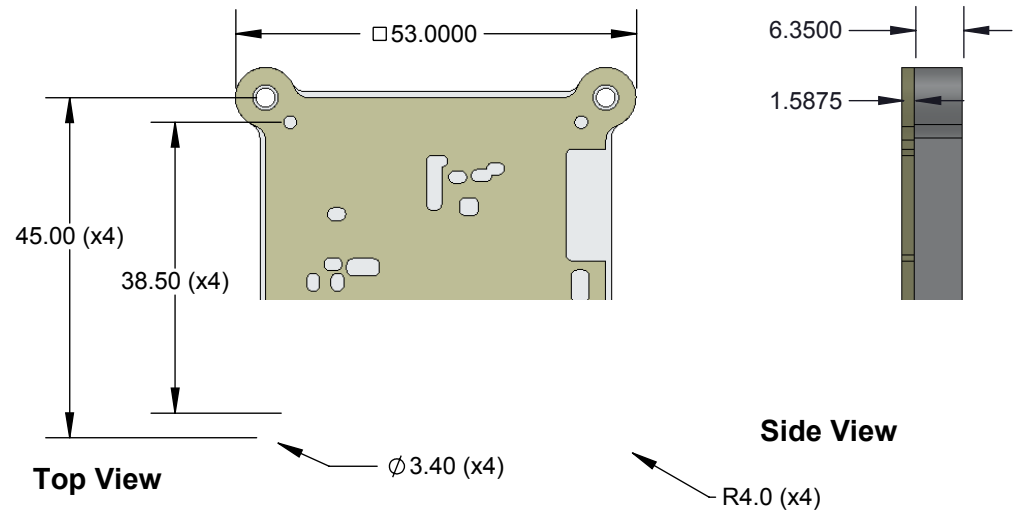
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001''$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001''$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005''$] unless stated otherwise. Materials and specifications are subject to change without notice.

 GT-BGA-2017 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 203.81	STATUS: Released ENG: S. Huang FILE: GT-BGA-2017 Dwg	SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 02/20/2015	REV. A SCALE: 2:1



Note: GT elastomer (item 6) will be made as a full 34x34 array BGA1156.


ITEM NO.	DESCRIPTION	Material
1	SM Socket Base for 35x35mm IC w/ custom footprint	Torlon 5530
2	Heat sink screw M30	7075-T6 Aluminum Alloy
3	Custom Socket Lid	7075-T6 Aluminum Alloy
4	Compression Plate, 35x35mm IC	7075-T6 Aluminum Alloy
5	Ball Guide, SM, 35mm, 34x34 array	Kapton Polyimide/Cirlex
6	GT elastomer for 35mm IC 1mm pitch 34x34 array BGA1156	N/A
7	1134 pin BGA 35mm , 1mm Pitch	Material <not specified>
8	Test PCB BGA1134, 1mm pitch 34x34 array	FR4
9	Insulation Plate	FR4
10	Custom backing plate	7075-T6 Alumium Alloy
11	Dowel Pin, 1/16" x 3/16", SS	Chrome Stainless Steel
12	Screw, M3 x 0.5mm, 25mm lg, Low Head Cap, SS	Stainless Steel (18-8)
13	Fan: 30x30x10mm 5V 5.5 CFM 0.6 watts	Material <not specified>
14	Torquing bracket, 24mm hole centers, 5mm hex	7075-T6 Alumium Alloy
15	#2-56 X .75 LG, SOC HD CAP SCREW	Plain Carbon Steel
16	M3 Stand off 4.5mm OD 3.2mm ID 8mm long	Stainless Steel (18-8)



Description: Socket Assem and Detail

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.

 GT-BGA-2017 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 203.81	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 1.5:1
		FILE: GT-BGA-2017 Dwg	DATE: 02/20/2015	