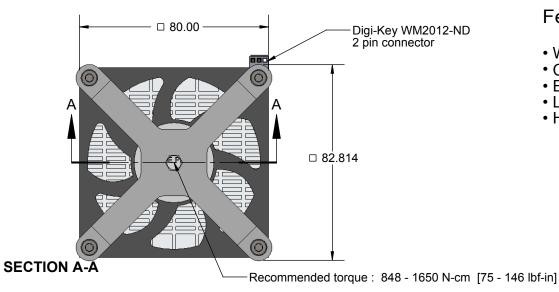
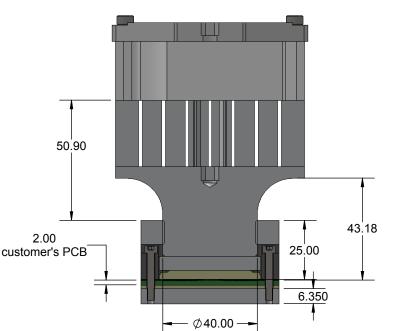
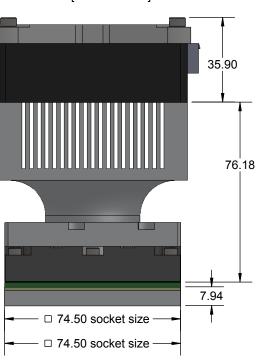
GT BGA Socket - Direct mount, solderless

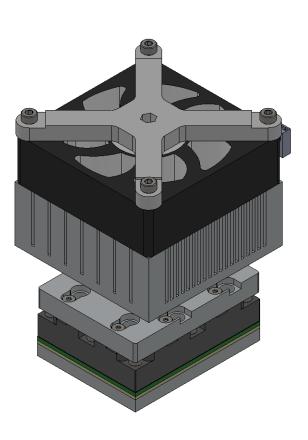


Features

- Wide temperature range (-55C to +160°C).
- Current rating at 20C temperature rise is 5.4 Amps per pin
- Excellent signal integrity at high frequencies.
 Low and stable contact resistance for reliable production yield.
- Highly compliant to accommodate wide co-planarity variations.







Description: Socket for 43x59mm 41x57 1mm pitch BGA

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

 $\frac{Tolerances:}{Lo.0254mm} \ [\pm 0.001"], Pitches (from true position) \pm 0.0762mm \ [\pm 0.003"], substrate thickness tolerance \pm 10\%, all other tolerances \pm 0.127mm \ [\pm 0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.$

	GT-BGA-2023 Drawing		
Ì	A	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c	
		www.ironwoodelectronics.c	

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

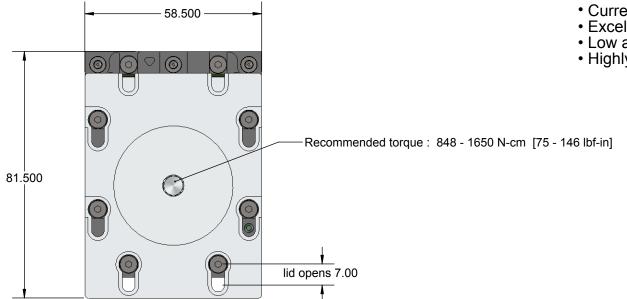
STATUS: Released	SHEET: 1 OF 9	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1.6
FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	

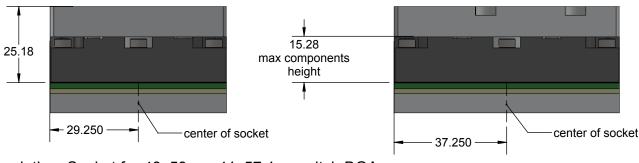
GT BGA Socket - Direct mount, solderless

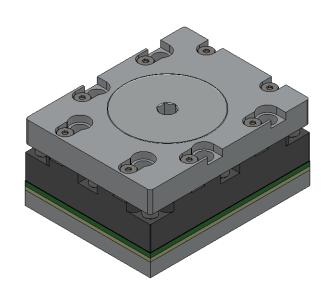
Socket without heatsink and fan

Features

- Wide temperature range (-55C to +160°C).
 Current rating at 20C temperature rise is 5.4 Amps per pin
 Excellent signal integrity at high frequencies.
 Low and stable contact resistance for reliable production yield.
 Highly compliant to accommodate wide co-planarity variations.







Description: Socket for 43x59mm 41x57 1mm pitch BGA

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

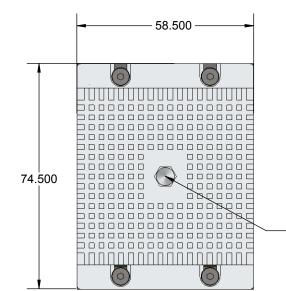
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

GT-BGA-2023 Drawing	Material: N/A	STATUS: Released	SHEET: 2 OF 9	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 1088.96	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1.25
www.ironwoodelectronics.com	vveignt. 1000.30	FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	

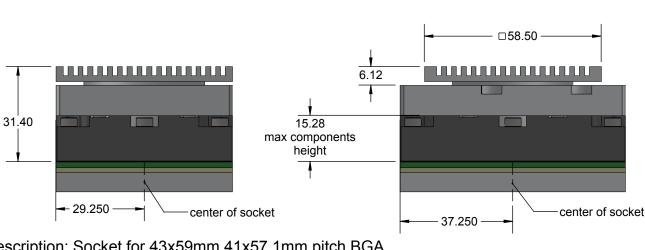
GT BGA Socket - Direct mount, solderless

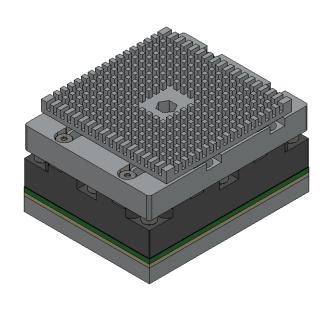
Features

- Wide temperature range (-55C to +160°C).
- Current rating at 20C temperature rise is 5.4 Amps per pin
- Excellent signal integrity at high frequencies.
 Low and stable contact resistance for reliable production yield.
 Highly compliant to accommodate wide co-planarity variations.



Recommended torque: 848 - 1650 N-cm [75 - 146 lbf-in]



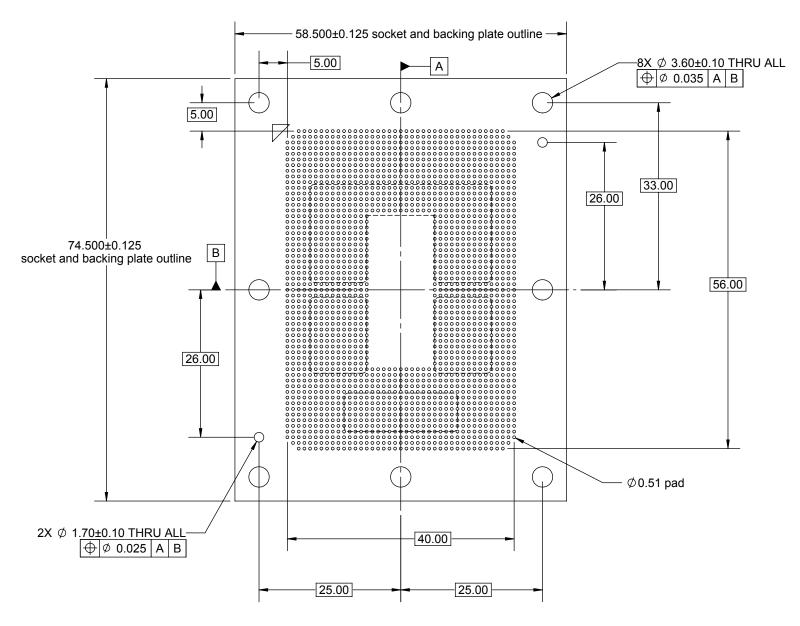


Description: Socket for 43x59mm 41x57 1mm pitch BGA

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

Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

GT-BGA-2023 Drawing Ma		Material: N/A	STATUS: Released	SHEET: 3 OF 9	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 1088.96	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1.25
		Weight. 1000.00	FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	



Description: Recommended PCB Layout

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

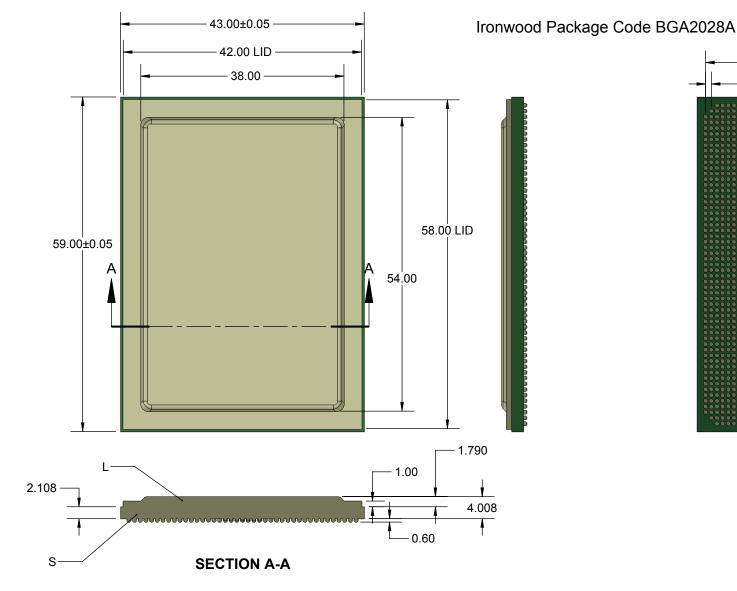
<u>Tolerances:</u> Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

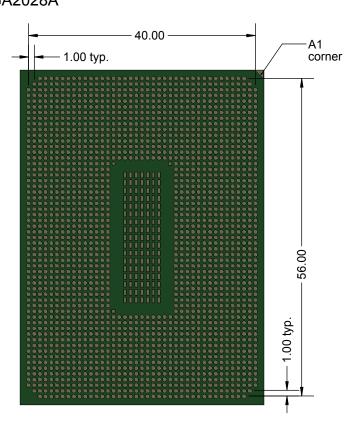
GT-BGA-2023 Drawing



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

STATUS: Released	SHEET: 4 OF 9	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.5:1
FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	







- 1.
- Interpret dimensions and tolerances per ASME Y14.5M-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.

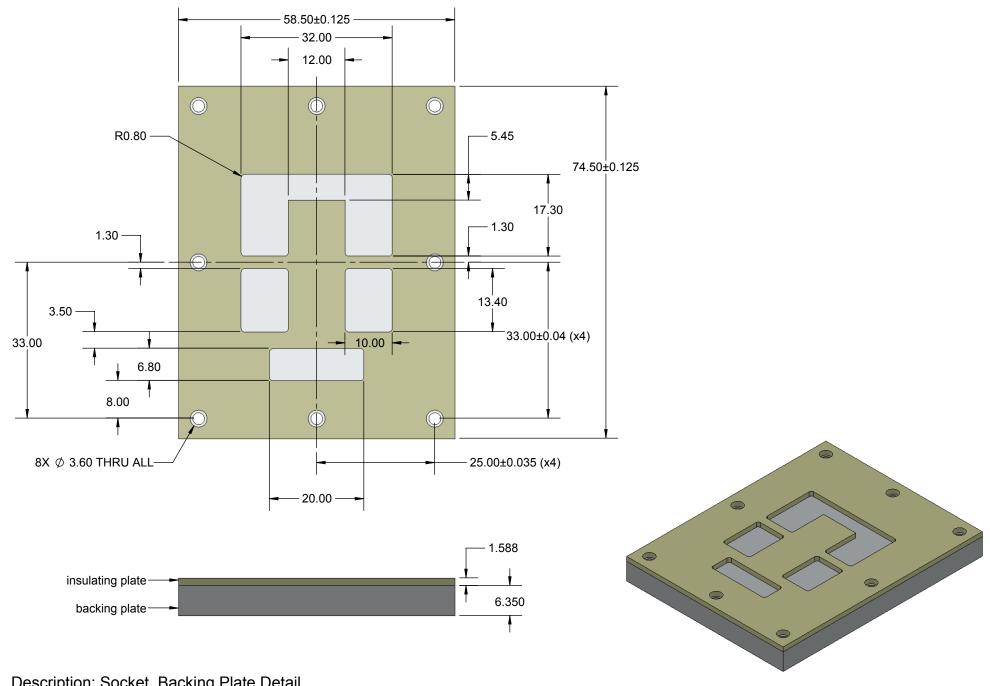
 Parallelism measurement shall exclude any effect of mark on top surface of package. 2.
- 3.

Description: Compatible Device

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.

	GT-BGA-2023 Drawing	Finish: N/A Weight: 1088.96	STATUS: Released	SHEET: 5 OF 9	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.5:1
W	www.ironwoodelectronics.com		FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	



Description: Socket, Backing Plate Detail

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.

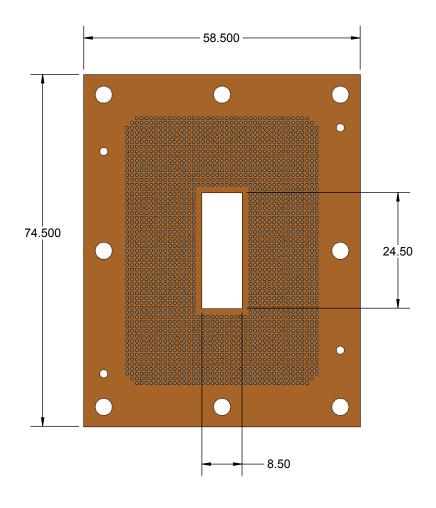
GT-BGA-2023 Drawin	g
Ironwood Floetronics	In

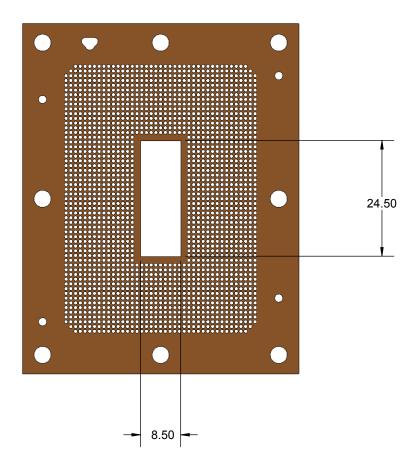
ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com

STATUS: Released SHEET: 6 OF 9		REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.25:1
FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	

Ball Guide (top view)

Interposer (top view)





Description: Interposer and Ball Guide

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

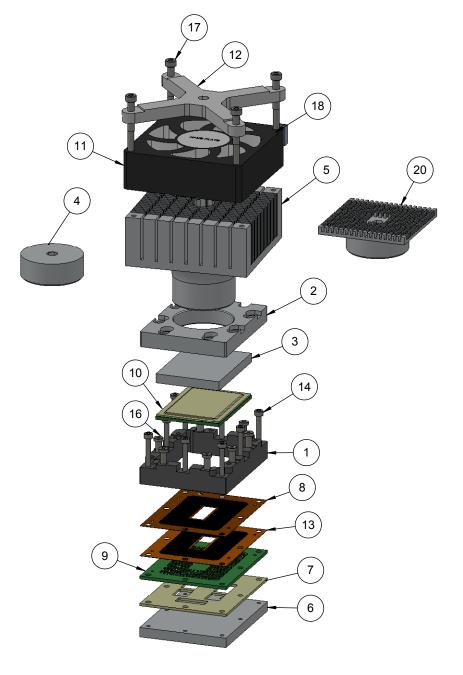
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

G	T-B(GA-2	023	Drav	wing



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

STATUS: Released	SHEET: 7 OF 9	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.25:1
FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	



Description: Socket assembl

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.

GT-BGA-2023 Drawing



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 1088.96

7 Insulating plate			FR4 S	tandard
8	Ball Guide		Kapton Pol	yimide/Cirlex
9	Customer's target PCB		FR4 S	tandard
10	Customer's device	e	FR4 S	tandard
11	Fan 80x25, 40.2CFM	I 12V	Plastic (I	JL 94V-0)
12	Torquing bracke	t	Stainless	Steel (303)
13	GT Elastomer 43x59mm pitch 41x57 array		Conductive	e Elastomer
14	Screw, M3 x 0.5mm, 20 Low Head Cap, S	Omm lg, S	Stainless	Steel (18-8)
15	Dowel Pin, 1/16" x 3/1	6", SS	Chrome Stainless Steel	
16	Low Profile Shoulder Screw, M3 THRD, 4mm shoulder dia., 18- 8SS		Stainless Steel (18-8)	
17	Socket Head Cap Screw , 40mm lg	, M4x0.7	Alloy	Steel
18	3 pin connectot housing ramp	0.1 with	Nylon 101	
19	Crimp Terminal 22-30 (SA Wire	Br	ass
20	Heatsink compression Screw		7075-T6 AI	umium Alloy
TUS: R	eleased	SHEET: 8	3 OF 9	REV. A
: E. Smolentseva DRAWN			BY: M. Raske	SCALE: 1:2.4
GT-BGA-2023 Dwg DATE: 0			5/08/2015	

Material

7075-T6 Aluminum Alloy

7075-T6 Aluminum Alloy

7075-T6 Alumium Alloy

7075-T6 Aluminum Alloy

7075-T6 Alumium Alloy

7075-T6 Aluminum Alloy

ITEM

NO.

1 2

3

4

5

6

DESCRIPTION

Socket Base

Socket lid

Compression Plate

Compression Screw, M40

Heatsink compression Screw

Backing plate

STATUS: Released	SHEET: 8 OF 9	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:2.4
FILE: GT-BGA-2023 Dwg	DATE: 05/08/2015	

To apply the torque specified on page 1 you would need additional tools (not included with the socket, but could be purchased separately)

ACDelco ARM601-3 3/8-Inch Digital Torque Wrench

24 - 444 in lb torque range Item Weight 2.8 pounds Product Dimensions 1.5 x 1.5 x 12.2 inches

Batteries: 4 AAA batteries required. (included)

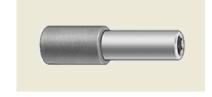
Ironwood Part number R3902



Square Drive Hex Insert Bit Holder

Magnetic Plain End, 3/8" Female Square Drive, 1/4" Hex Length 2 1/8"
Magnetic Plain End
Use with male square-drive tools. Made of steel.

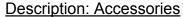
Ironwood Part number R3903



Bit Adapter

1/4" x 1/4" Hex Shank Socket Head Insert Bit, 2" long

Ironwood Part number R3916



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

<u>Tolerances:</u> 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.

