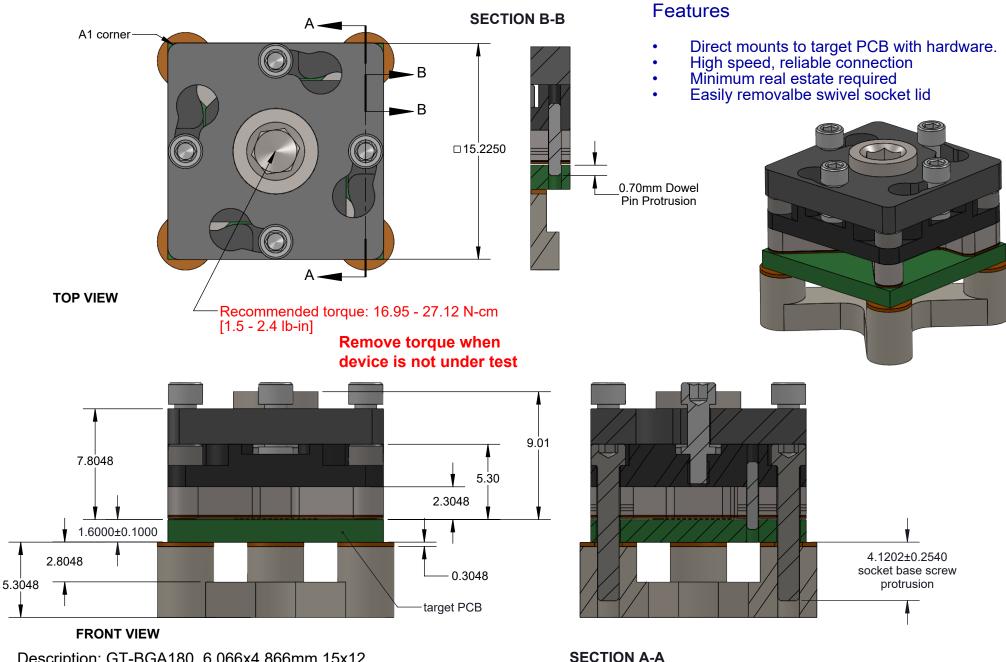
GT Elastomer socket - Direct mount, solderless

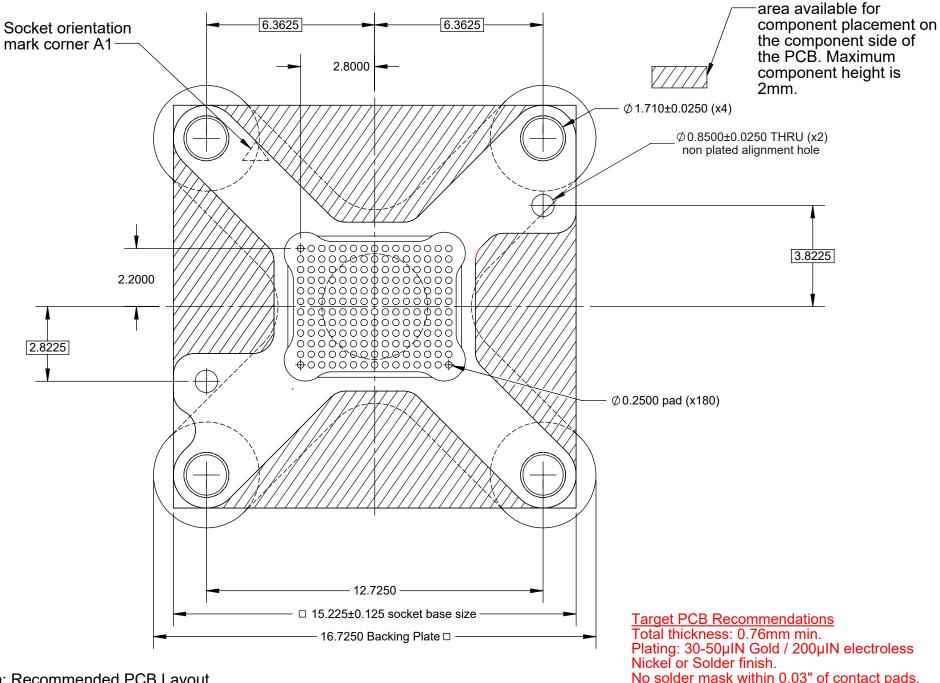


Description: GT-BGA180, 6.066x4.866mm 15x12

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-2046 Drawing STATUS: Released SHEET: 1 OF 5 REV. A Material: N/A Finish: N/A Ironwood Electronics, Inc. ENG: E. Smolentseva DRAWN BY: M. Raske SCALE: 3.75:1 Weight: 6.55 Tele: (800) 404-0204 www.ironwoodélectronics.com FILE: GT-BGA-2046 Dwg DATE: 05/12/2016



Description: Recommended PCB Layout

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-2046 Drawing



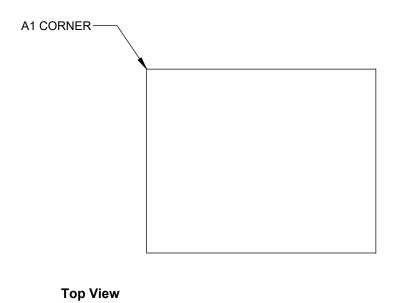
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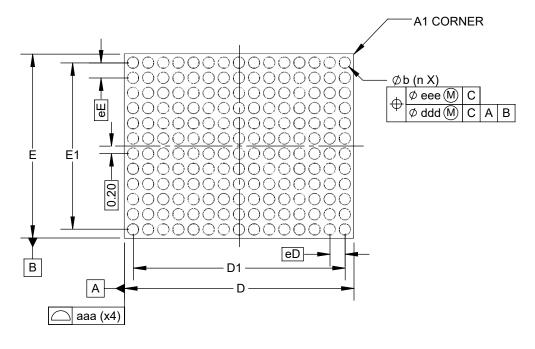
Material: N/A Finish: N/A Weight: 6.55

STATUS: Released	SHEET: 2 OF 5	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 7:1
FILE: GT-BGA-2046 Dwg	DATE: 05/12/2016	

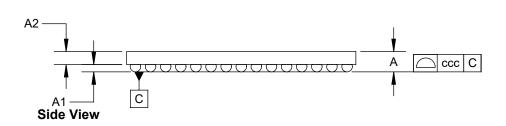
Plating: 30-50µIN Gold / 200µIN electroless

No solder mask within 0.03" of contact pads. Solder mask height is less than 0.003" over the pads surface.





Bottom View



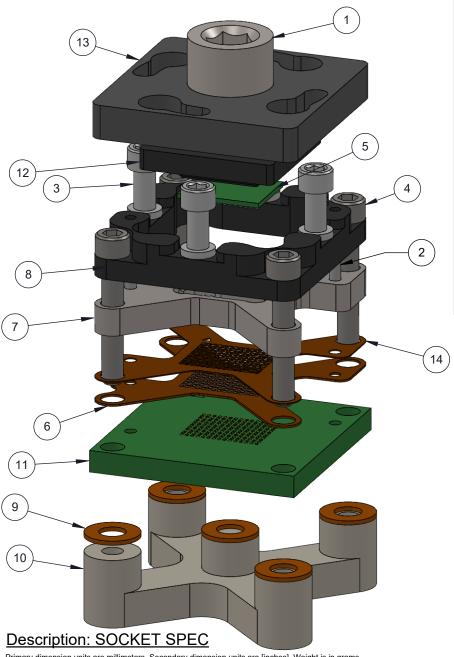
		1	
	MIN	NOM	MAX
Α	0.520	0.560	0.600
A1	0.160		0.220
A2	0.345±0.025		
D	6.066 BSC		
E		4.866 BSC	
b	0.240	0.270	0.300
eD	0.400		
еE	0.400		
n	180		
D1 5.600 BSC		5.600 BSC	
E1	4.400 BSC		
aaa 0.030 ccc 0.050		0.030	
ddd			
eee			

Description: BGA

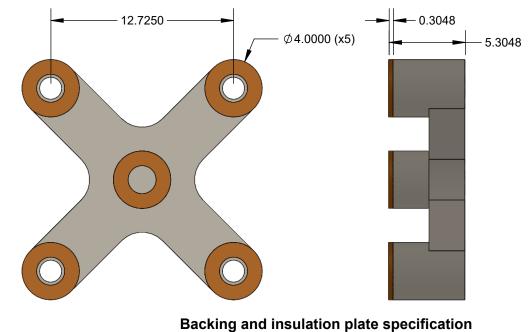
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-2046 Drawing		Material: 14/7 (STATUS: Released	SHEET: 3 OF 5	REV. A
•	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 6.55	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 10:1
		J	FILE: GT-BGA-2046 Dwg	DATE: 05/12/2016	



ITEM NO.	DESCRIPTION	Material	
1	Compression Screw M6x1	Stainless Steel (18-8)	
2	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel	
3	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)	
4	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel	
5	Customer's device	FR4 Standard	
6	GT elastomer for 6.066x4.866 15x12 BGA180	N/A	
7	IC Guide 6.066x4.866mm	PEEK	
8	Socket base	7075-T6 Aluminum Alloy	
9	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex	
10	10x10mm 5 post backing plate	7075-T6 Aluminum Alloy	
11	Customer's target PCB	Material <not specified=""></not>	
12	Compression Plate	7075-T6 Aluminum Alloy	
13	Socket Lid	7075-T6 Aluminum Alloy	
14	Ball Guide 15x12 0.4mm pitch	Kapton Polyimide/Cirlex	



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.

Note: Backing plate holes are tapped to accept 0-80 screws.

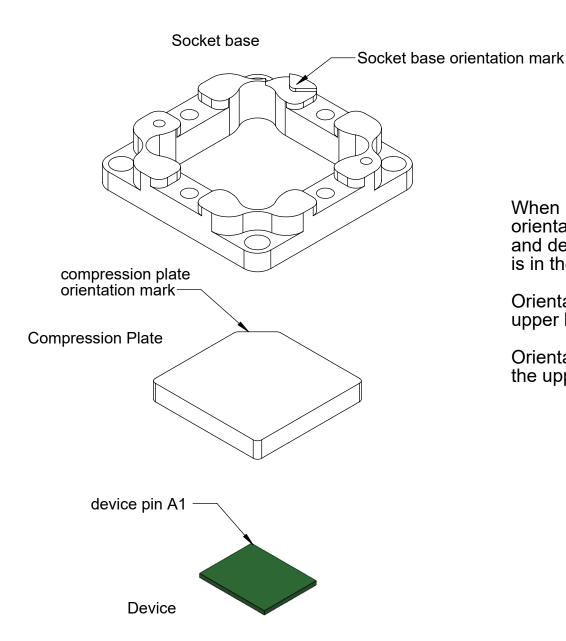
GT-BGA-2046 Drawing



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Material: N/A Finish: N/A Weight: 6.55

STATUS: Released	SHEET: 4 OF 5	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3.8:1
FILE: GT-BGA-2046 Dwg	DATE: 05/12/2016	



When placing BGA device inside the socket, note orientation of the socket base, compression plate and device. Pin A1 orientation mark on the device is in the upper left corner if looking from the top.

Orientation mark on the socket base is in the upper left corner if looking from the top.

Orientation mark on the compression plate is on the upper left corner if looking from the top.

Description: User instructions

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-2046 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204

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Material: N/A Finish: N/A Weight: 6.55

Rev	Date	Initials	Description	
Α	9/2/2015	JV	Original	
STATUS: Released			SHEET: 5 OF 5	REV. A
			DRAWN BY: M. Raske	SCALE: 4:1
			DATE: 05/12/2016	