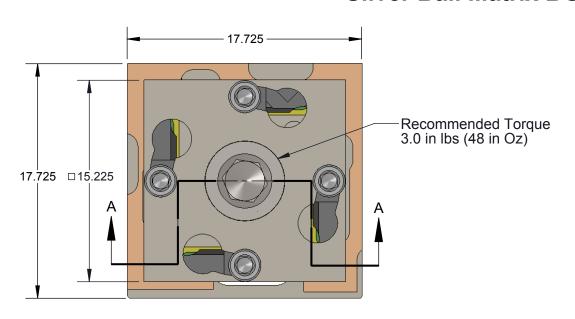
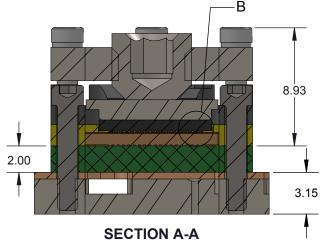
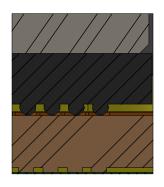
Silver Ball Matrix BGA Socket



TOP VIEW

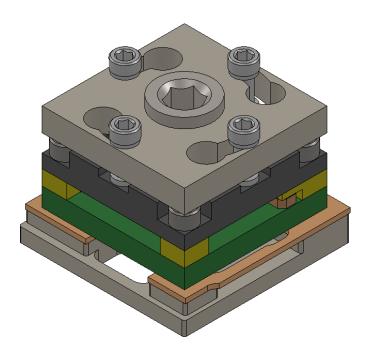




DETAIL B SCALE 16:1

Features

- Wide temperature range (-55C to +150C).
 Current capability is 4A per pin.
 Over 40GHz bandwidth @-1dB for edge pins.
 Low and stable contact resistance for reliable production yield.
 Highly compliant to accommodate wide co-planarity variations.
- Capacitance under 0.15pF





Description: SM-BGA 8.5x8.5mm 0.4mm pitch 19x18 array

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

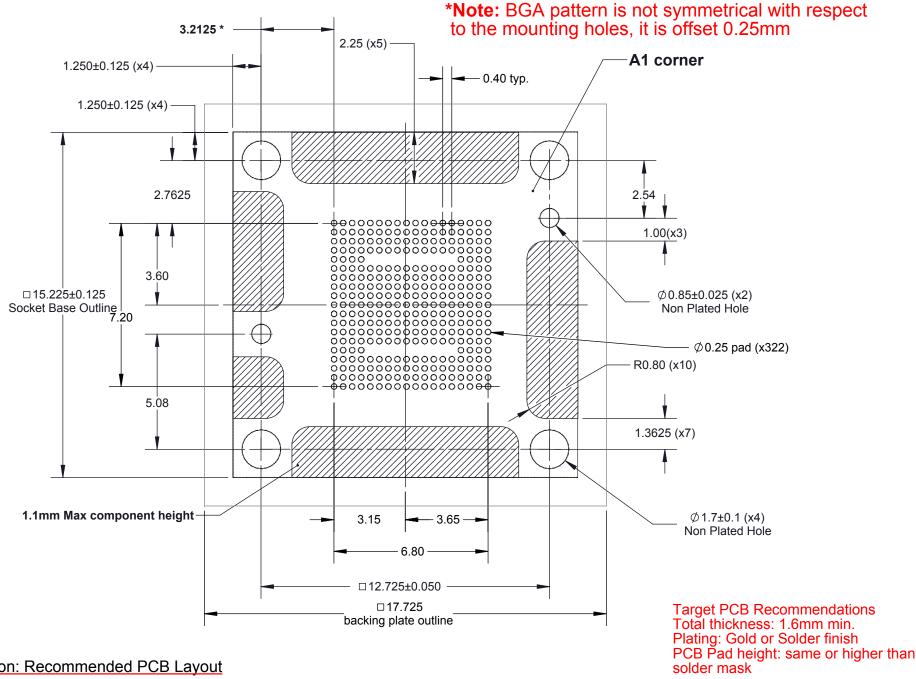
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

S	M-BGA-9036 Drawing
A	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: Material <not specified> Finish:

Weight: 6.56

	STATUS: Released	SHEET: 1 OF 5	REV. B
	ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3.5:1
	FILE: SM-BGA-9036 Dwg	DATE: 8-14-13	



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

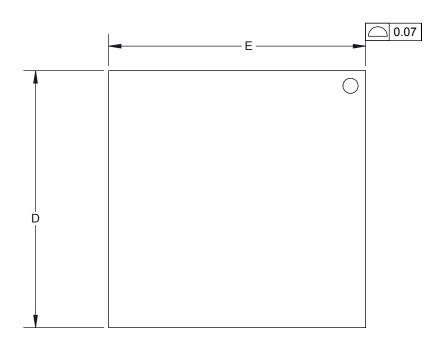
SM-BGA-9036 Drawing

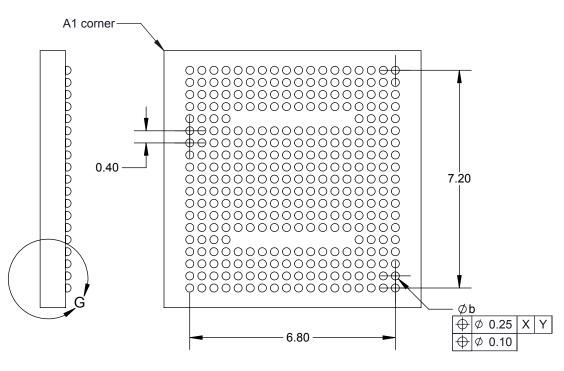


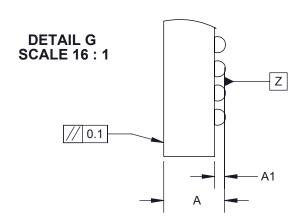
Material: Material <not specified> Finish: Weight: 6.56

STATUS: Released SHEET: 2 OF 5 REV. B ENG: S. Faiz DRAWN BY: M. Raske SCALE: 6:1 FILE: SM-BGA-9036 Dwg DATE: 8-14-13

IRONWOOD PACKAGE CODE: BGA322A







DIM	Minimum	Maximum		
Α		1.00		
A1	0.13	0.23		
b		0.30		
D	8.5	BSC		
E	8.5 BSC			
е	0.4 BSC			
ARRAY	18x19			
PIN COUN	Т	322		
·				

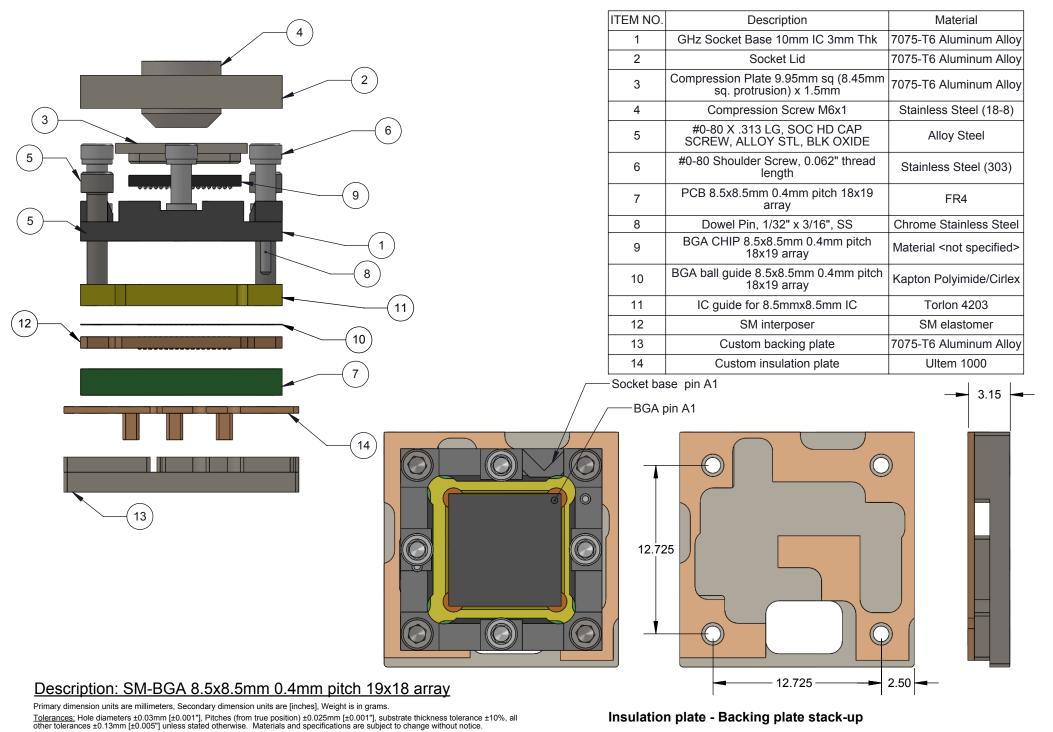
- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5. Parallelism measurement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

Description: Compatible BGA

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.

SM-BGA-9036 Drawing		material fiet openiou	STATUS: Released	SHEET: 3 OF 5	REV. B
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 6.56	ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 8:1
TOP			FILE: SM-BGA-9036 Dwg	DATE: 8-14-13	

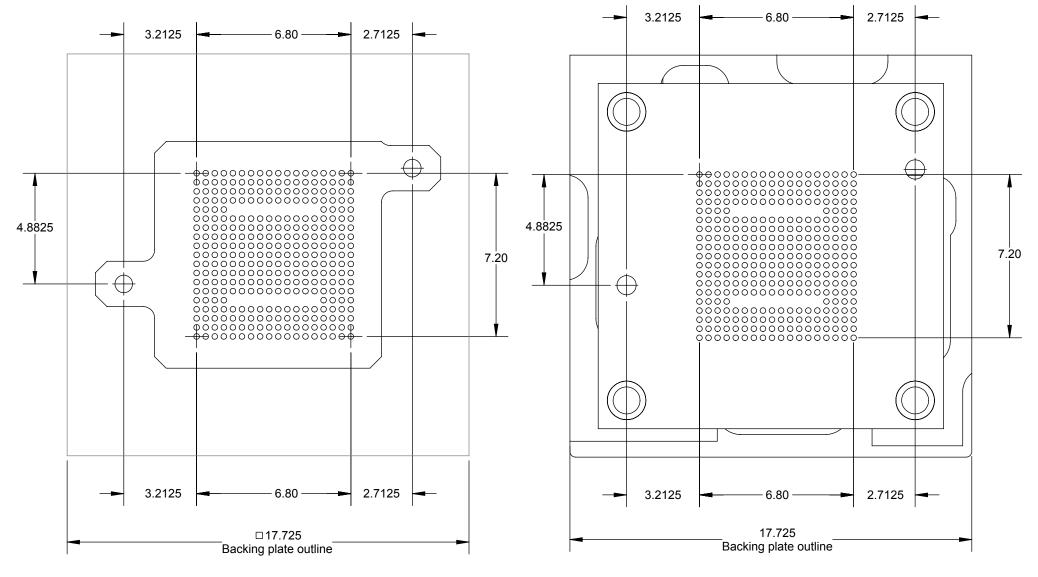


SM-BGA-9036 Drawing

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish:

Weight: 6.56

STATUS: Released	SHEET: 4 OF 5	REV. B
ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3.5:1
FILE: SM-BGA-9036 Dwg	DATE: 8-14-13	



SM elastomer layout (Top View)

Target PCB layout (Top View)

Rev

Α

В

Description: SM-BGA 8.5x8.5mm 0.4mm pitch 19x18 array

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.

	STATUS: Released		SHEET:	5 OF 5		REV. B
	ENG: S. Faiz		DRAWN	BY: M. Rasl	ke	SCALE: 6:1
	FILE: SM-BGA-9036 Dwg		DATE: 8	3-14-13		

Initials

MR

DH

Description

Ultem to Torlon

Chnaged IC Guide material from

Original

Date

08/14/13

01/15/15

SM-BGA-9036 Drawing

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish:

Weight: 6.56