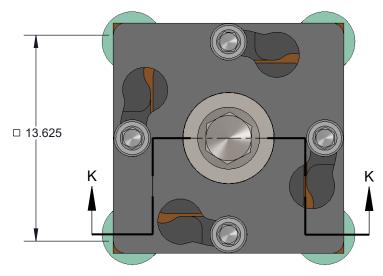
# SG15-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR TEST APPLICATIONS

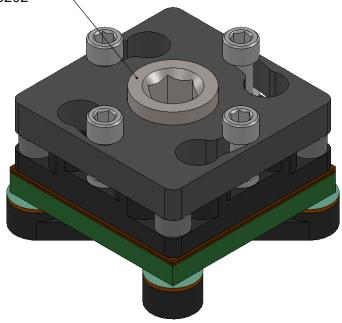


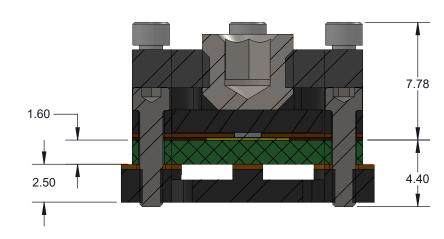
### FEATURES:

- Directly mounts to target PCB (needs tooling holes) with hardware.
- Over 40GHz bandwidth @-1dB
  Low and stable contact resistance for reliable production yield.
- Self inductance under 0.025nH.
- · Compression plate distributes forces evenly
- · Easily removable swivel socket lid

Required Torque: 0.07 Ncm (1 Ozf in)

Recommended tool: R3202





# **SECTION K-K**

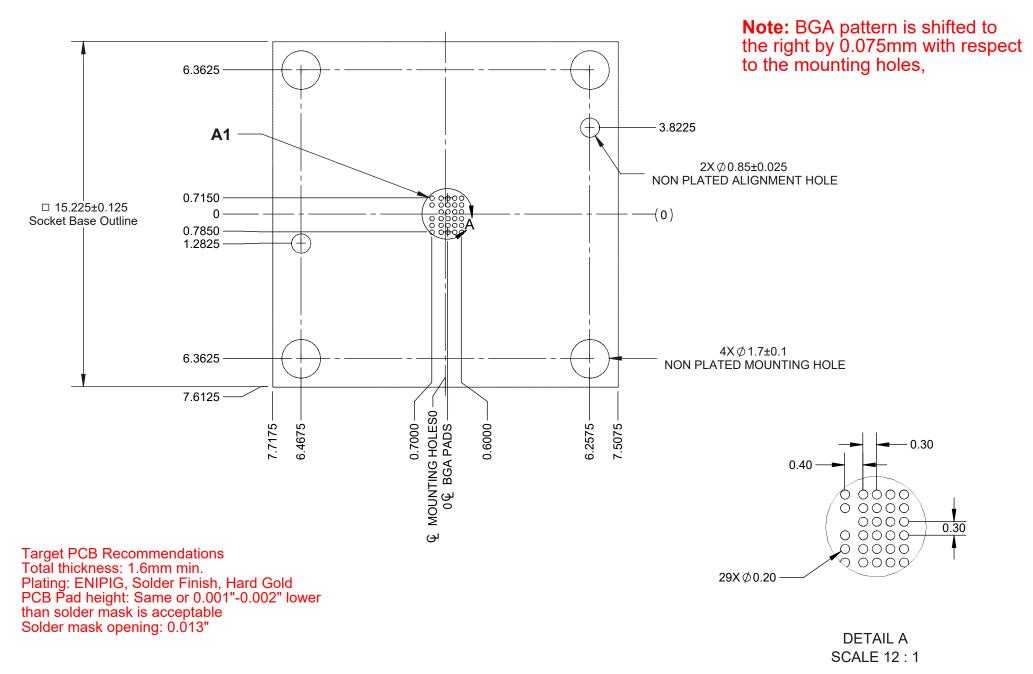
**TOP VIEW** 

# Description: Socket for 1.74x2.05 0.4x0.3mm pitch BGA29

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

SG15-BGA-1007 Drawing	Finish: Weight: 5.54	STATUS: Released	SHEET: 1 OF 4	REV. A
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SG15-BGA-1007 Dwg	DATE: 01/19/2017	

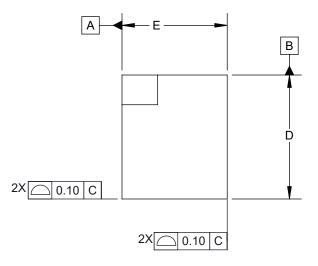


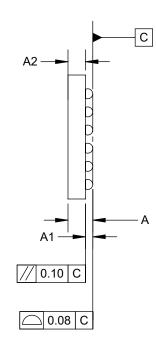
#### **Description: Recommended PCB Layout**

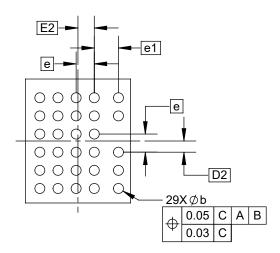
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

\$	SG15-BGA-1007 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 2 OF 4	REV. A
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 5.54	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 6:1	
		Weight. 0.04	FILE: SG15-BGA-1007 Dwg	DATE: 01/19/2017	







DIM	Minimum	Maximum		
A	-	0.46		
A1	0.09	0.15		
A2		REF		
b	0.12	0.18		
D	2.05	2.05 BSC		
D2	0.185	0.185 BSC		
E	7.0	BSC		
E2	0.27	BSC		
е	0.3 BSC			
e1	0.4 BSC			
ARRAY	5X6			
PIN COUN	JNT 29			

#### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

2. CONTROLLING DIMENSION: MILLIMETERS.

3. COPLANARITY APPLIES TO SPHERICAL CROWNS OF SOLDER BALLS.

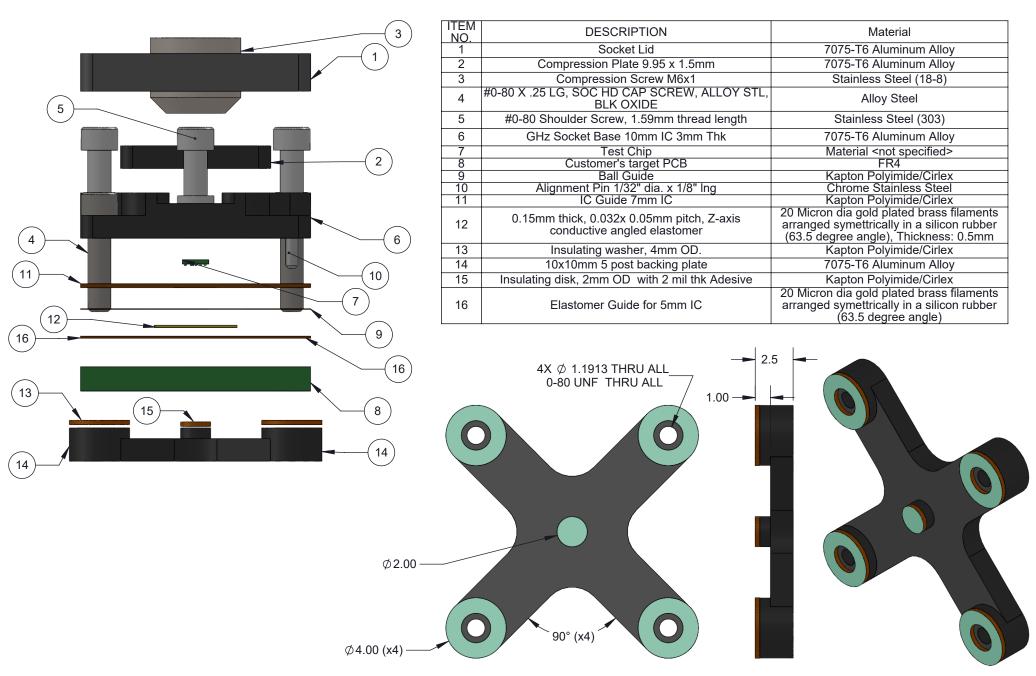
4. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF SOLDER BALLS.5. DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO DATUM C.

# **Description: Compatible 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.

SG	615-BGA-1007 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 3 OF 4	REV. A
	Tele: (800) 404-0204 Weight: 5.5		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 16:1
$\sim$		5	FILE: SG15-BGA-1007 Dwg	DATE: 01/19/2017	



#### **Description: Socket Specification**

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

30	13-DGA
	©2015_

9C1E

# **Backing Plate Specification**

5-BGA-1007 Drawing	Finish: Weight: 5.54	STATUS: Released	SHEET: 4 OF 4	REV. A
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SG15-BGA-1007 Dwg	DATE: 01/19/2017	