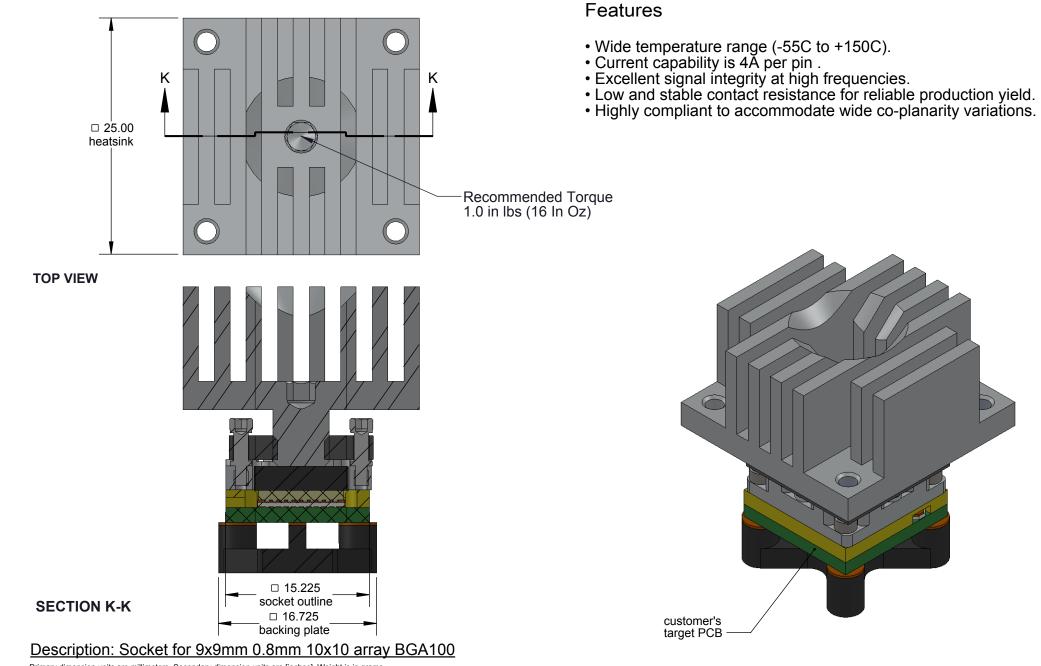
Silver Ball Matrix Socket - Direct mount, solderless



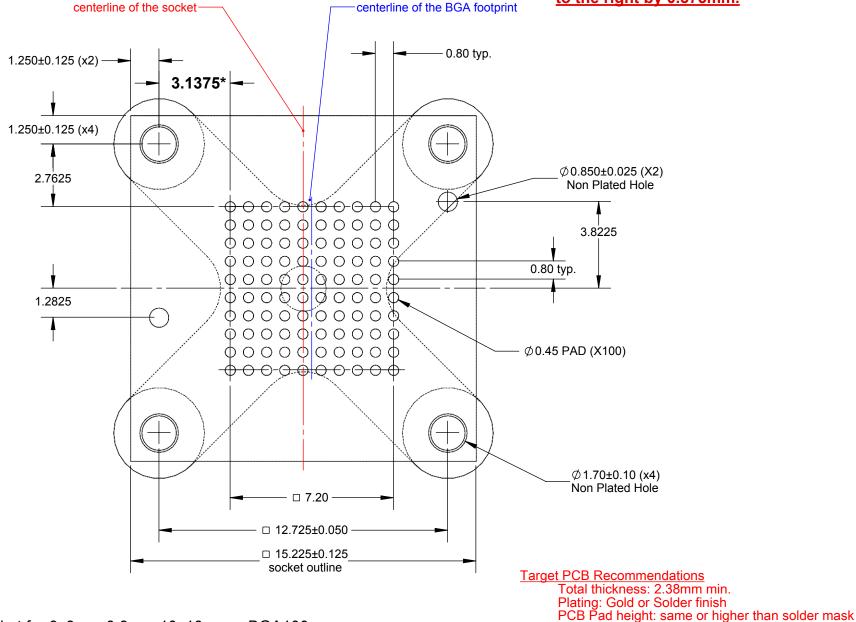
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise.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

SI	M-BGA-9029 Dra
$\mathbf{\mathbf{G}}$	Ironwood Electror Tele: (800) 404 www.ironwoodelectr

awing	Material:
onics, Inc. 4-0204	Finish: Weight:
tronics.com	

	STATUS: Released	SHEET: 1 OF 5	REV. B
	ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 2.5:1
	FILE: SM-BGA-9029 Dwg	DATE: 04/18/2013	

*Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted to the right by 0.375mm.



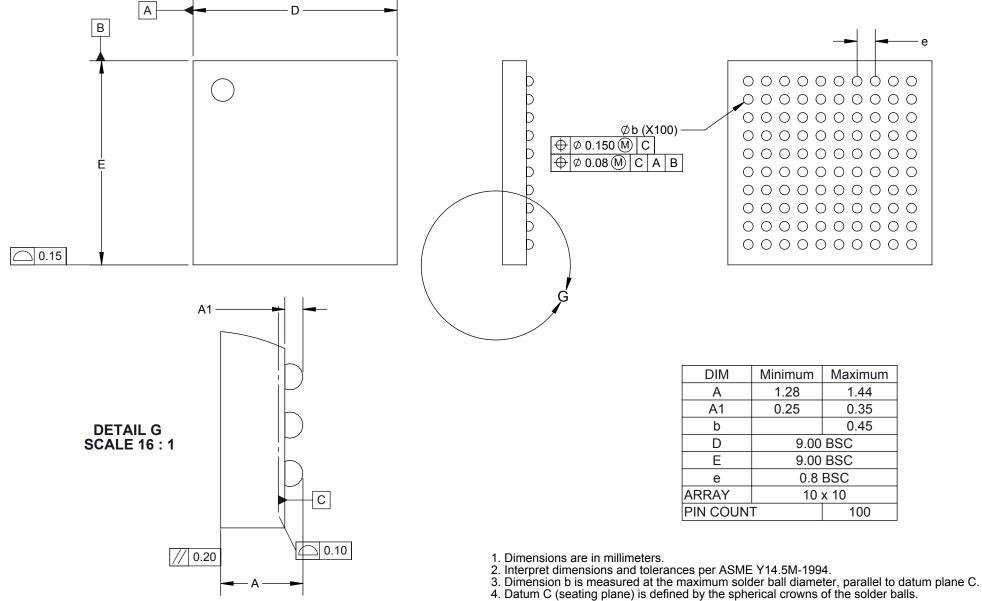
Description: Socket for 9x9mm 0.8mm 10x10 array BGA100

Primary dimension units are millimeters, Secondary dimension units are [inches].

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-9029 Drawing Material:		STATUS: Released	SHEET: 2 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish:	DRAWN BY: E. Smolentseva	SCALE: 6:1		
		Weight:	FILE: SM-BGA-9029 Dwg	DATE: 04/18/2013	

Ironwood Package Code: BGA100C



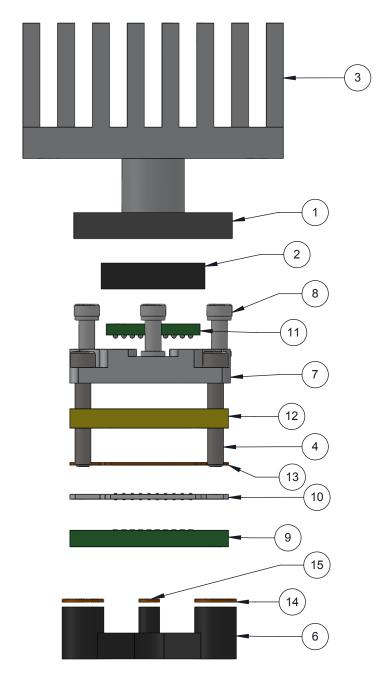
5. Parallelism measurement shall exclude any effect of mark on top surface of package.

Description: Socket for 9x9mm 0.8mm 10x10 array BGA100

Primary dimension units are millimeters, Secondary dimension units are [inches].

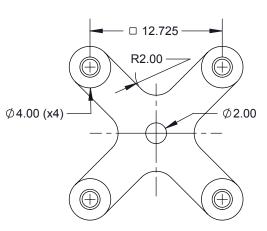
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

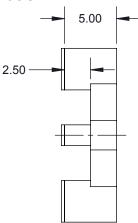
SM-BGA-9029 Drawing	SM-BGA-9029 Drawing Material:		SHEET: 3 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight:	DRAWN BY: E. Smolentseva	SCALE: 6:1	
		FILE: SM-BGA-9029 Dwg	DATE: 04/18/2013	



ITEM NO.	DESCRIPTION	Material	
1	Socket Lid	7075-T6 Aluminum Alloy	
2	Compression Plate	7075-T6 Aluminum Alloy	
3	Heat Sink	7075-T6 Aluminum Alloy	
4	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel	
5	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel	
6	10x10mm 5 post backing plate	7075-T6 Aluminum Alloy	
7	Socket Base	7075-T6 Alumium Alloy	
8	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)	
9	PCB 0.8mm pitch 10x10 array	High Temp FR4	
10	SM interposer for 10x10 0.8mm	Silmat	
11	BGA100 9x9mm 0.8mm pitch 10x10 array	FR4 Standard	
12	IC guide 8x10mm IC	Torlon 4203	
13	Ball Guide	Kapton Polyimide	
14	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex	
15	Insulating disk, 2mm OD with 2 mil thk Adesive	Kapton Polyimide/Cirlex	







Description: Socket for 9x9mm 0.8mm 10x10 array BGA100

Primary dimension units are millimeters, Secondary dimension units are [inches].

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-9029 Drawing Material:		STATUS: Released	SHEET: 4 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish:	DRAWN BY: E. Smolentseva	SCALE: 2.75:1		
		Weight:	FILE: SM-BGA-9029 Dwg	DATE: 04/18/2013	

Rev	Date	Initials	Description	
A	04/18/13	ELS	Original	
В	03/28/14	DH	Changed IC Guide material from Ultem to Torlon	

Description: Revisions

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

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

S	M-BGA-9029 Drawing	Material:	STATUS: Released	SHEET: 5 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight:	ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 2.75:1	
			FILE: SM-BGA-9029 Dwg	DATE: 04/18/2013	