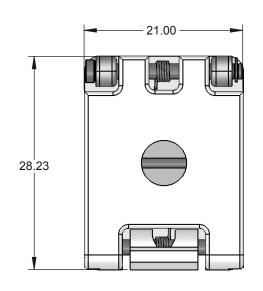
Silver Ball Matrix socket - Direct mount, solderless

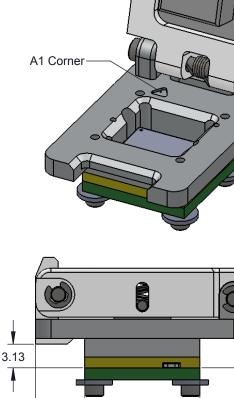


Features

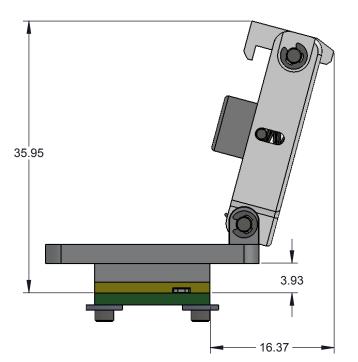
3.93

6.50

- Direct mounts to target PCB with hardware. High speed, reliable connection Minimum real estate required



6.50



Description: SM socket for 9.75x6mm, 13x8 0.75mm pitch BGA74

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

- 15.23 -

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.

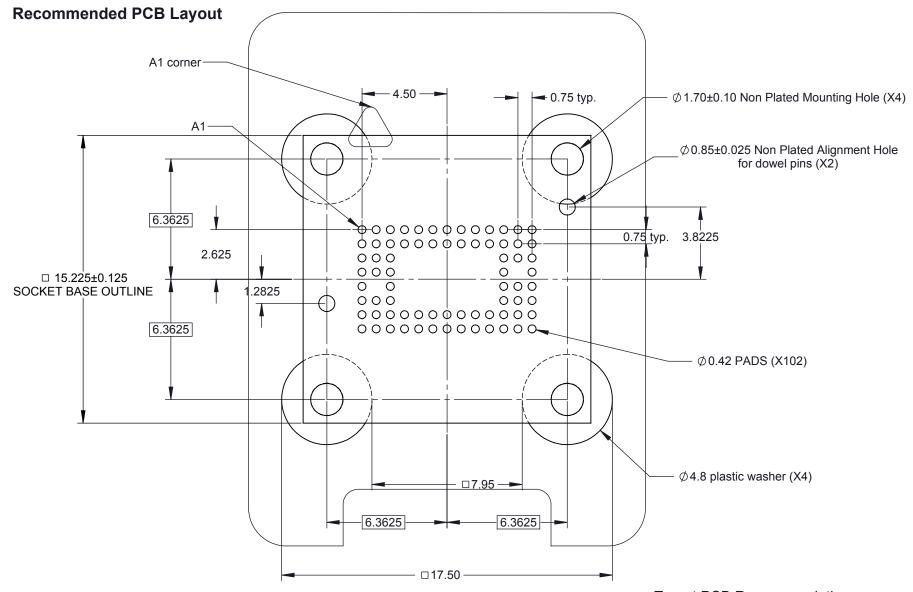
SM-BGA-9012 Drawing		
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14.61

13.18

lectronics, Inc. 0) 404-0204 délectronics.com

STATUS: Released	SHEET: 1 OF 4	REV. B
ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 2:1
FILE: SM-BGA-9012 Dwg	DATE: 6/12/2012	



<u>Target PCB Recommendations</u> Total thickness: 0.864mm min.

Plating: Gold or Solder finish
PCB Pad height: same or higher than solder mask

Description: Recommended PCB layout

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

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

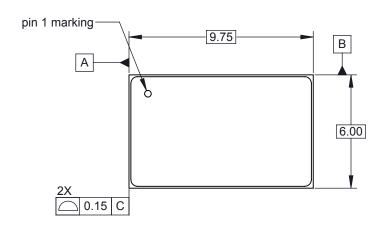
SM-BGA-9012 Drawing

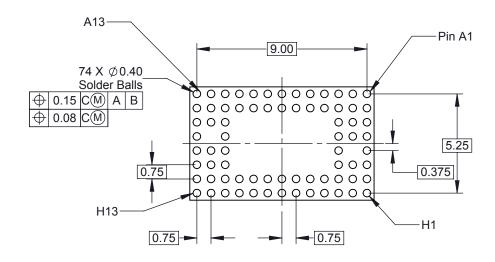
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STATUS: Released	SHEET: 2 OF 4	REV. B
ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 5:1
FILE: SM-BGA-9012 Dwg	DATE: 6/12/2012	

Compatible BGA IC

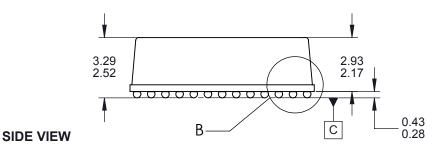
IRONWOOD PACKAGE CODE: BGA74B1





TOP VIEW

BOTTOM VIEW



- 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 C.
- 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.

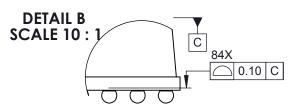
Description: IC package

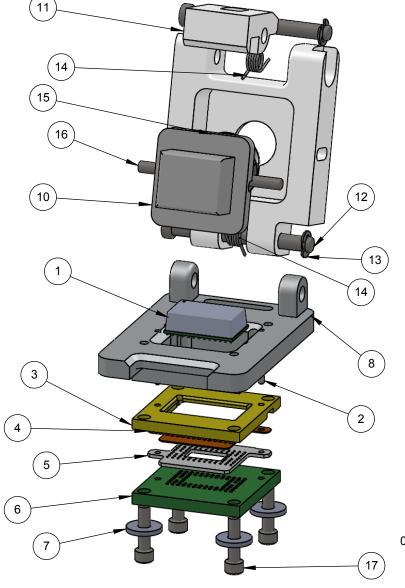
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

<u>Tolerances:</u> 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.

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STATUS: Released	SHEET: 3 OF 4	REV. B
ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 5:1
FILE: SM-BGA-9012 Dwg	DATE: 6/12/2012	





ITEM NO.	DESCRIPTION	Material
1	Customer's BGA74, 13x8 array 0.75mm pitch	Material <not specified=""></not>
2	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
3	IC guide	Torlon 4203
4	BGA ball guide	Kapton Polyimide/Cirlex
5	Interposer, 13x8 0.75mm pitch BGA74	Silmat
6	Customer's target PCB	FR4 High temp
7	Washer, #0 x .025", Nylon	Nylon 6/6
8	Socket Base	PPS
9	12mm Plastic Snap Clamshell Socket Lid	PPS/Ultem
10	Compression Plate Plastic	PEEK Ceramic filled/Ultem
11	Clamshell Latch Snap Lid Socket (modified M2695 latch)	PPS/Ultem
12	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
13	Snap ring for 2mm Hinge pin 0.15" OD	
14	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
15	Wave Spring 0.375"OD 0.15" In 100lbs/in	Steel Music Wire
16	Dowel Pin, M1.5 X 20mm LG, 18- 8 SS #0-80 X .25 LG, SOC HD CAP	AISI 347 Annealed Stainless Steel (SS)
17	#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel

- 6.3625 - 6.3625 - 0 3.8225 2.57 000 2.41 1.2825 0 0 0 00000000000 00 b 0 0 0 0 0 d οφφ Rev 0.75 4.82 4.66

Interposer Detail SCALE: 4:1

Date Initials Description 06/12/12 DH Original Changed IC Guide material from Ultem to Torlon 07/23/15 DH

Description: Exploded View

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.

SM-BGA-9012 Drawing



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STATUS: Released	SHEET: 4 OF 4	REV. B
ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 2:1
FILE: SM-BGA-9012 Dwg	DATE: 6/12/2012	