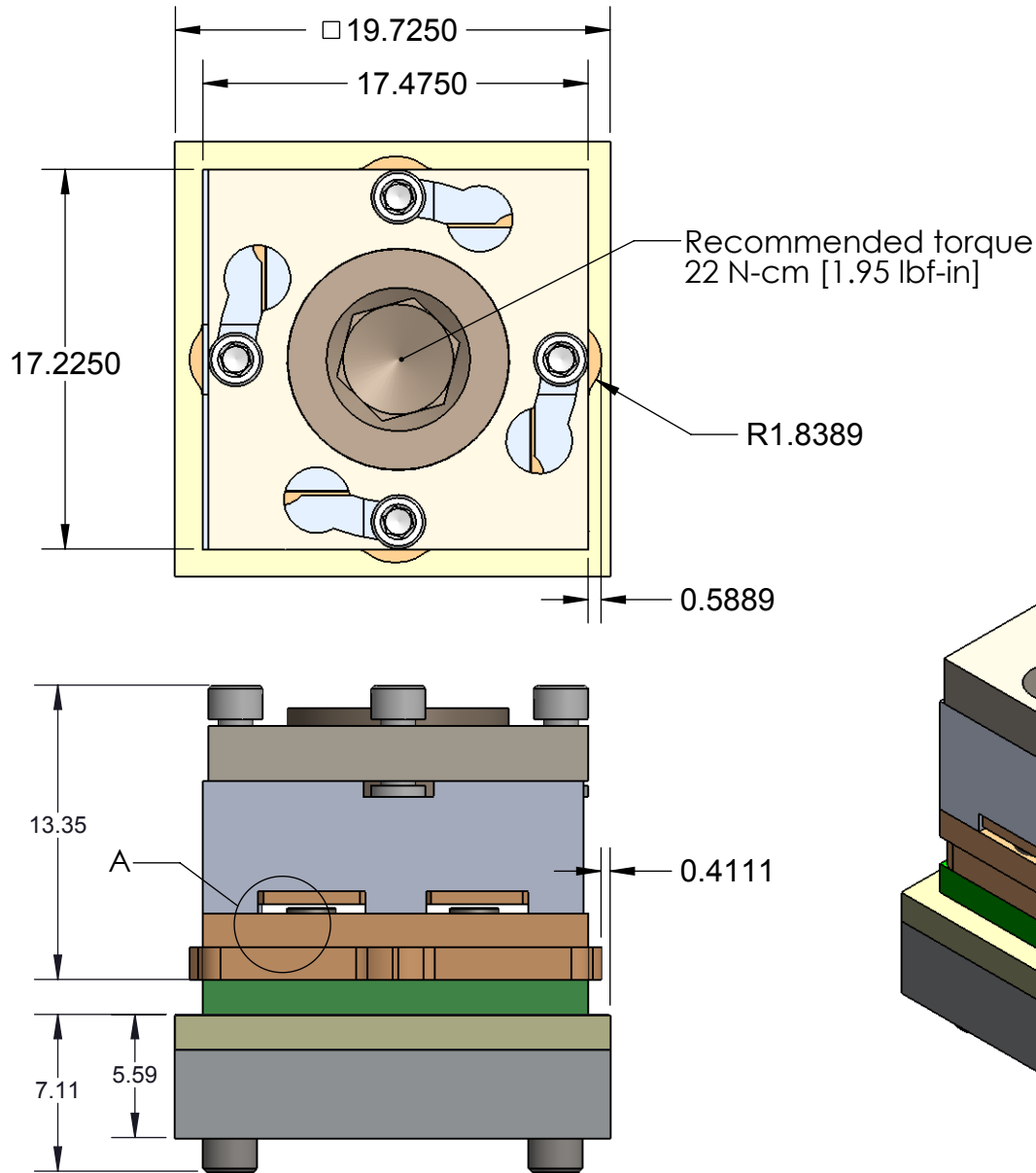
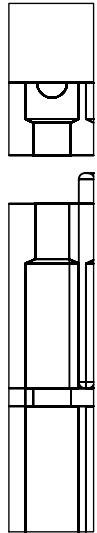
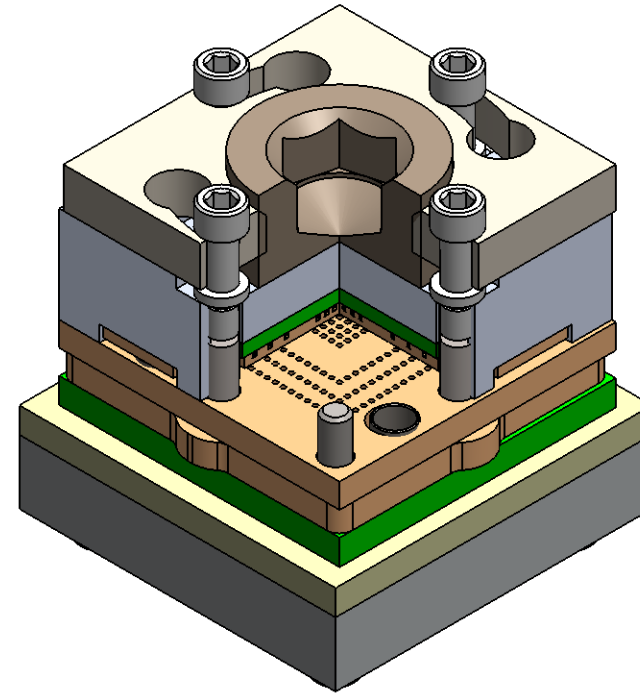


SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Features

- Wide temperature range (-55C to +180C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost and short lead time




DETAIL A
SCALE 16 : 1

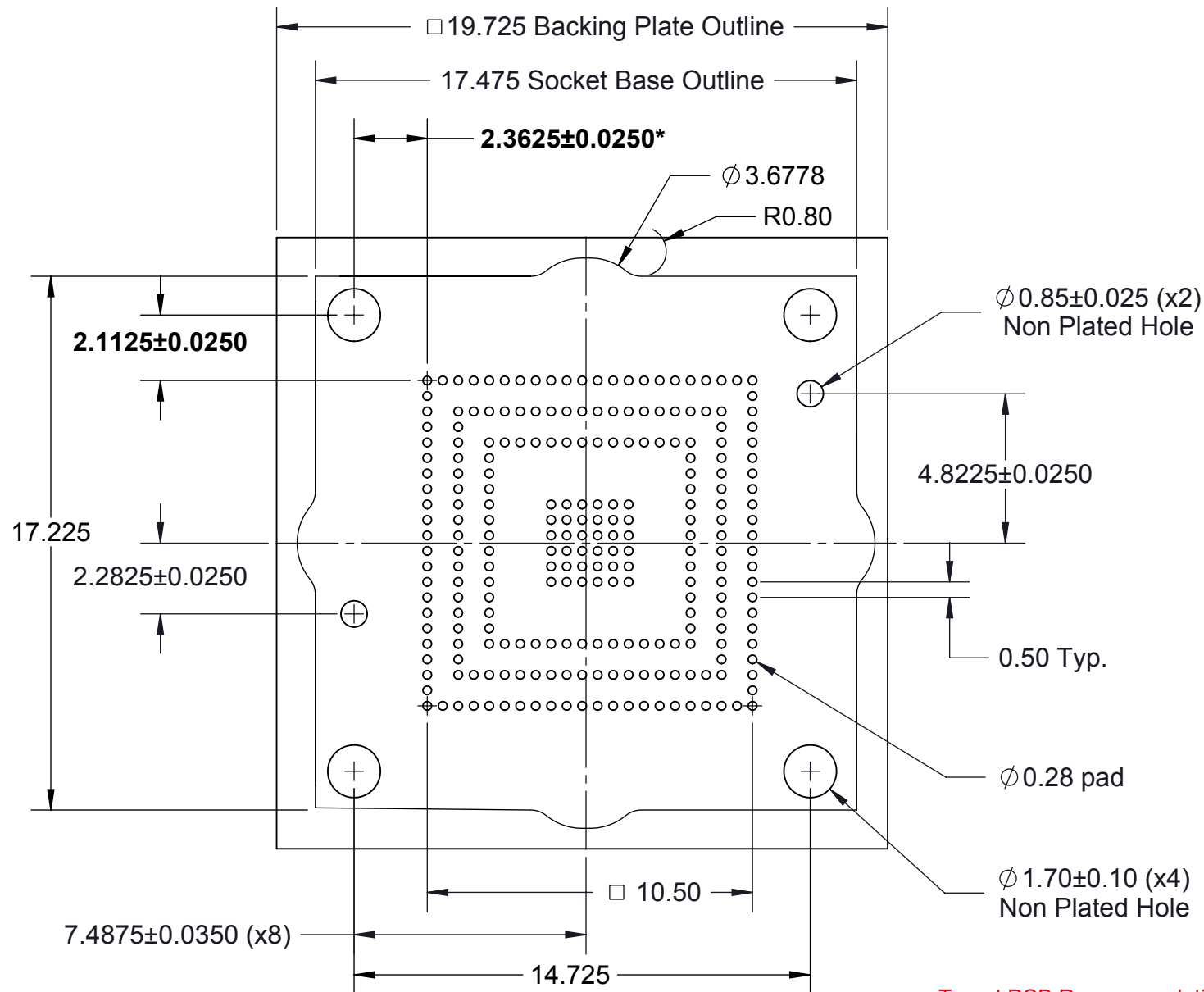
Description: SBT-BGA Socket, 12 X 12, 0.5mm, 22 X 22 Array

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

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

 SBT-BGA-7025 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 13.37	STATUS: Released ENG: E. Smolentseva FILE: SBT-BGA-7025 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 04/14/2015	REV. A SCALE: 3:1


***Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted to the right by 0.25mm.**

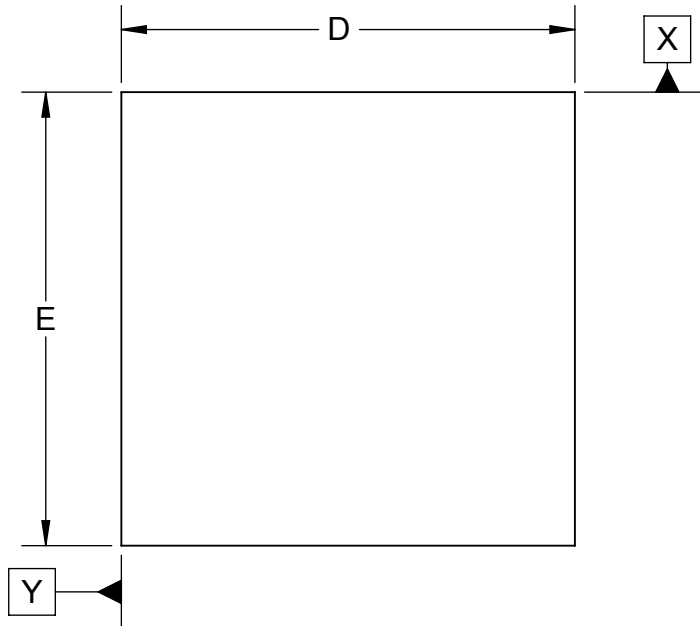


Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

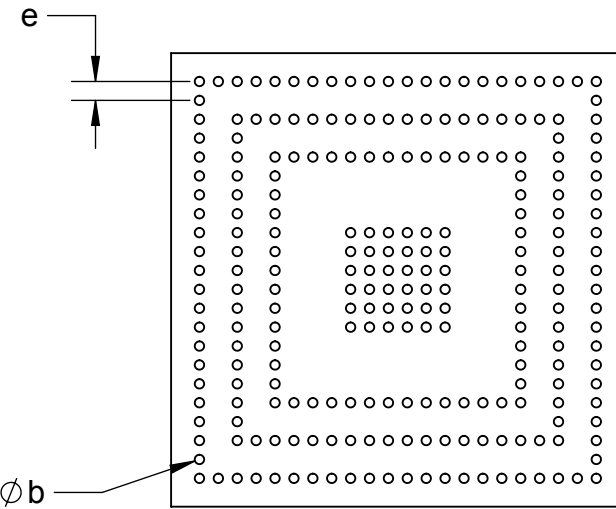
Description: Recommended PCB Layout

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

 SBT-BGA-7025 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 13.37	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: SBT-BGA-7025 Dwg	DATE: 04/14/2015	

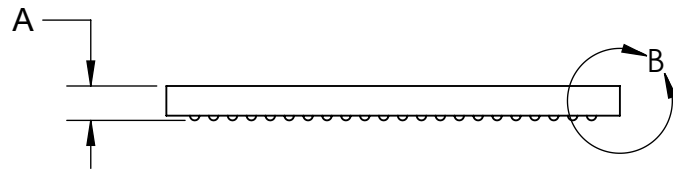


TOP VIEW

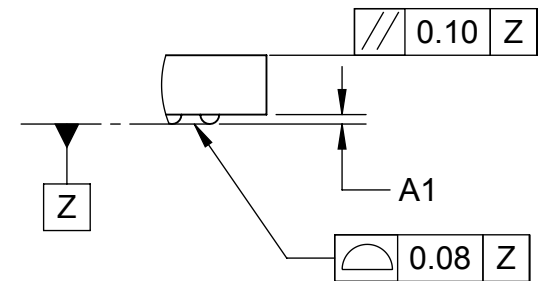


\oplus	ϕ 0.15	X	Y	Z
\oplus	ϕ 0.05	Z		

BOTTOM VIEW




DETAIL B
SCALE 10 : 1

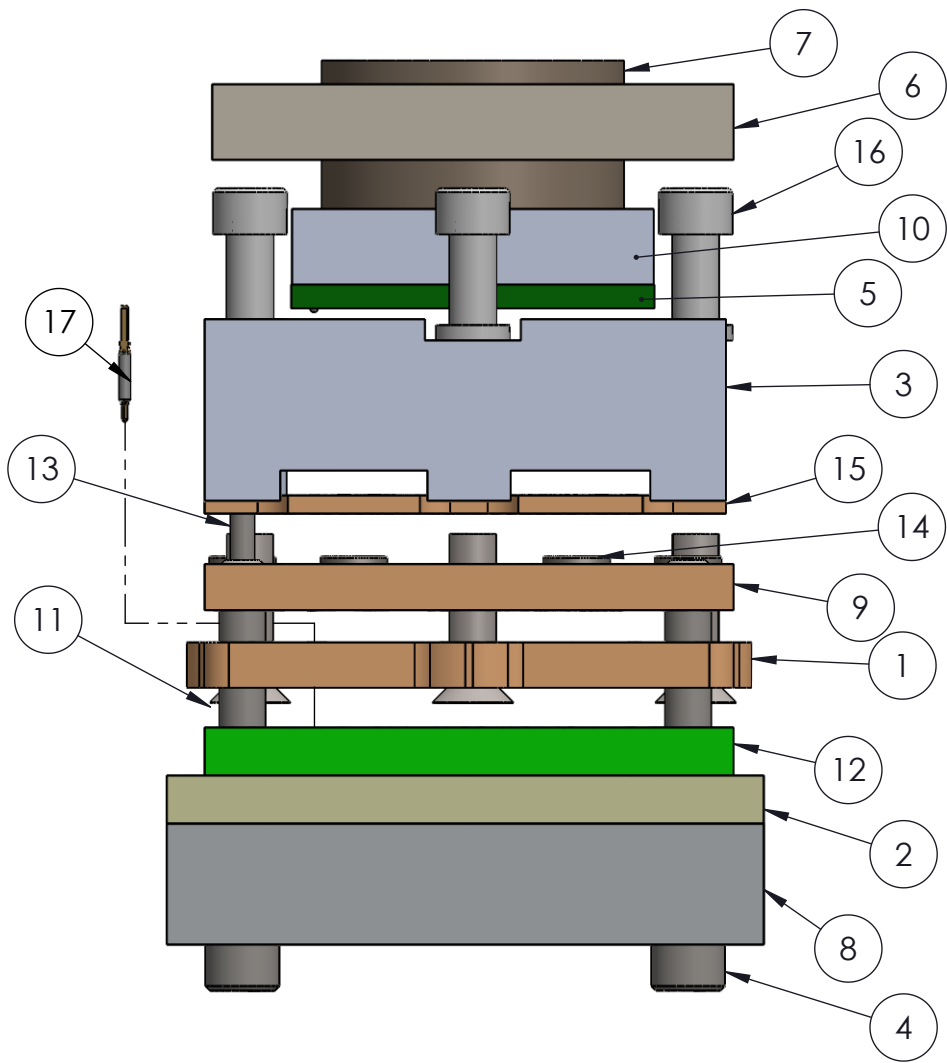


DIM	Minimum	Maximum
A		1.2
A1	0.15	
b	0.25	0.35
D	12.0 BSC	
E	12.0 BSC	
e	0.5 BSC	

Description: BGA

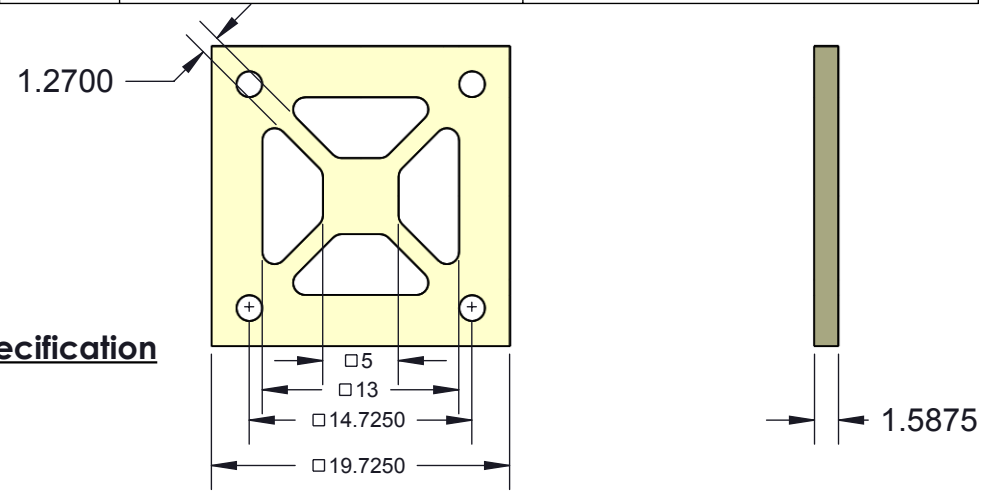
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.03\text{mm}$ [± 0.001 "]. Pitches (from true position) $\pm 0.025\text{mm}$ [± 0.001 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$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

 SBT-BGA-7025 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 13.37	STATUS: Released ENG: E. Smolentseva FILE: SBT-BGA-7025 Dwg	SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 04/14/2015	REV. A SCALE: 5:1
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ITEM NO.	Description	Material
1	Bottom Guide 12mm 0.5mm pitch 22x22 array	Semitron MDS 100
2	Insulation Plate	FR4 High temp
3	SBT Socket Base 12mm Ni plated 0.25mm shift	7075-T6 Aluminum
4	#0-80 x 0.5, SH Cap Screw	Alloy Steel
5	Customers device	Material <not specified>
6	SBT Nickel plated socket Lid, 12x12mm	7075-T6 Aluminum Alloy
7	Compression Screw M10	7075-T6 Alumium Alloy
8	SBT/CBT Ni Plated 12mm Backing Plate	7075-T6, Plate
9	Middle Pogo Guide 12x12mm 0.5mm pitch 22x22 array	Semitron MDS 100
10	Compression Plate	7075-T6 Aluminum Alloy
11	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
12	Customer's target PCB	Material <not specified>
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
14	Floating Guide Spring	Alloy Steel (SS)
15	Floating Guide 12x12mm 0.5mm pitch 22x22 array	Semitron MDS 100
16	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
17	SBT Pin, SBT-BGA 0.5mm-0.8mm	Stamped Contact: BeCu, Au Plate Over Ni . Spring SS, Au Plate

Insulation Plate Specification



Description: Socket Material Info

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

 SBT-BGA-7025 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 13.37	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1
		FILE: SBT-BGA-7025 Dwg	DATE: 04/14/2015	