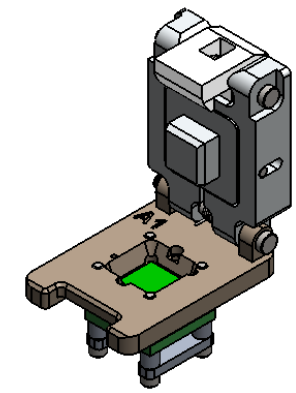
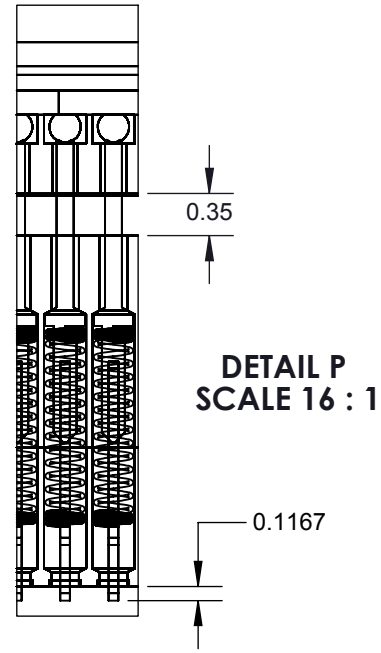
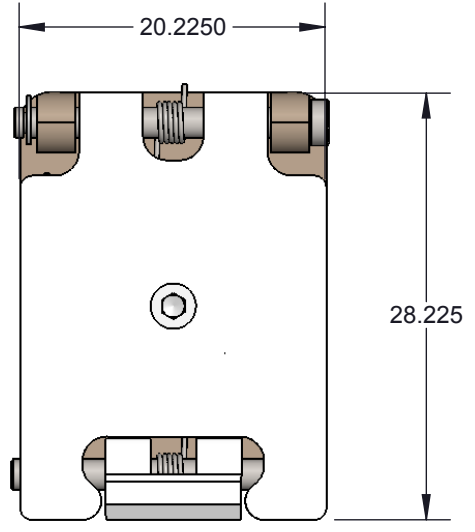


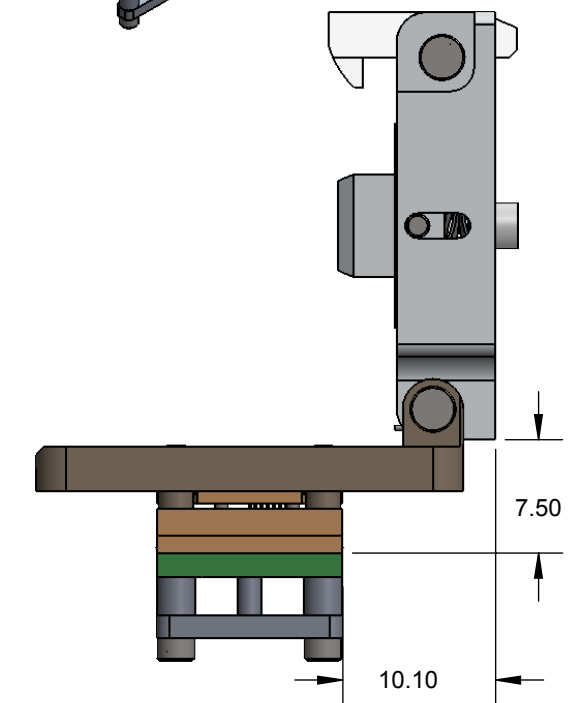
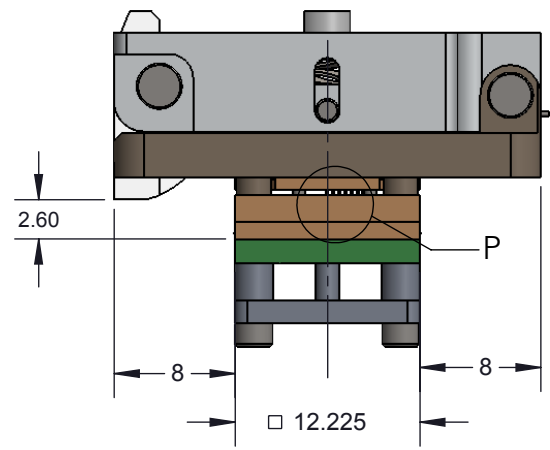
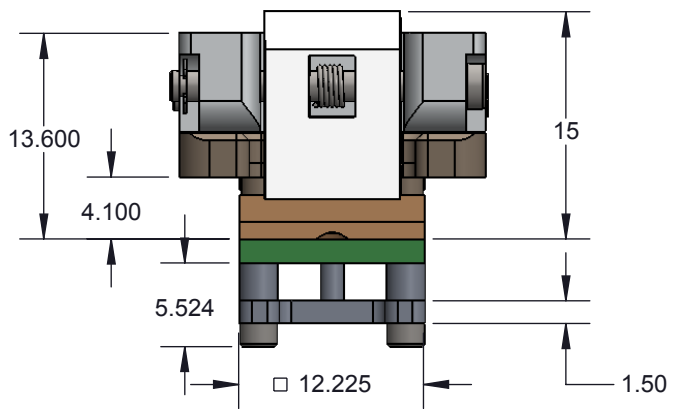
CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

FEATURES:

- Wide temperature range (-55C to +180C)
- Current capability up to 1.8A @ room temp. with 30C Temp rise
- 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




Scale 1:1

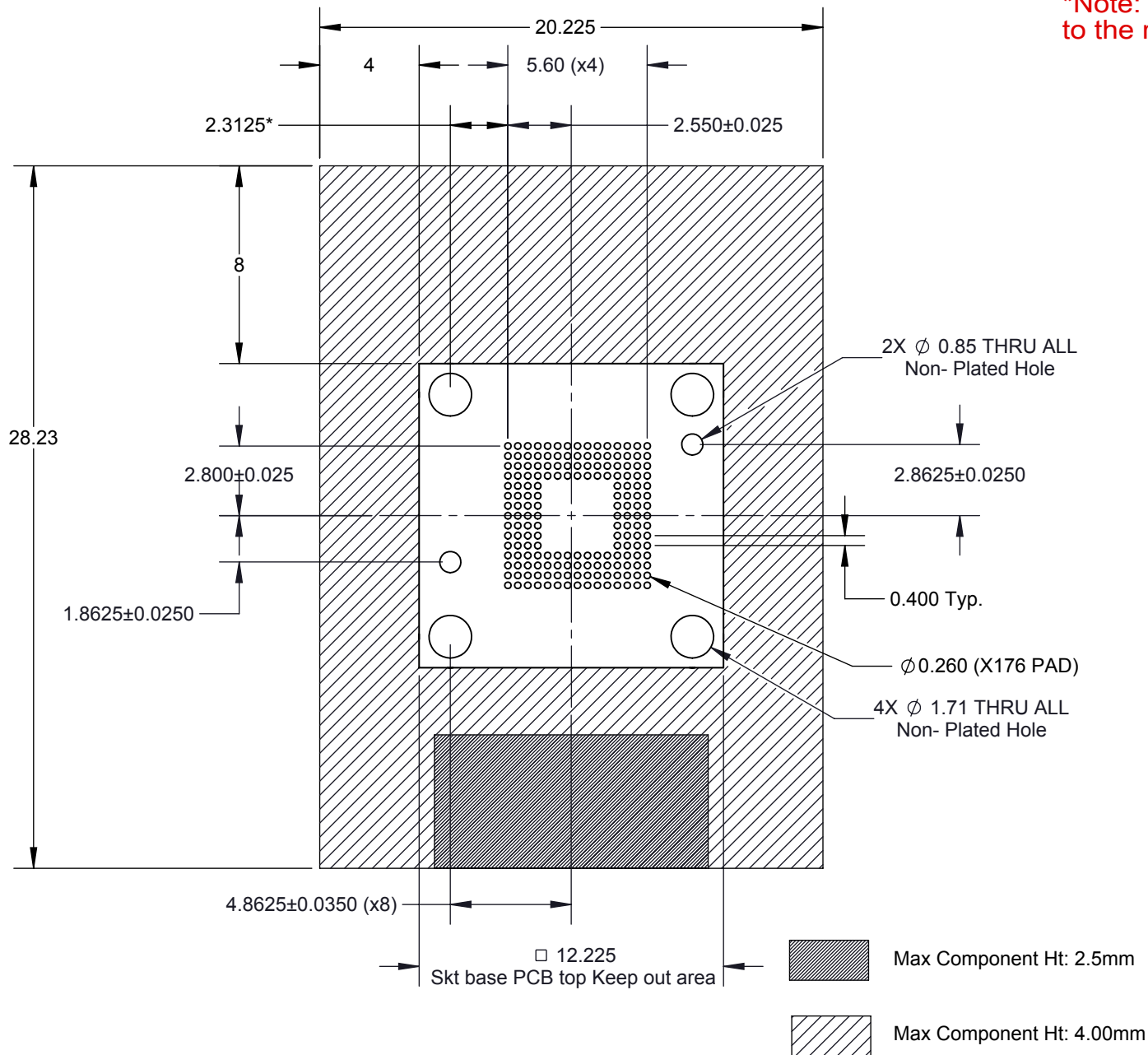


Description: CBT-BGA176 7x7mm 0.4mm pitch 15x15 array

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

 CBT-BGA-7504 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.13	STATUS: Released ENG: V. Panavala FILE: CBT-BGA-7504 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 08/21/2014	REV. A SCALE: 2:1

***Note: BGA footprint is shifted by 0.25mm to the right with respect to the mounting holes**




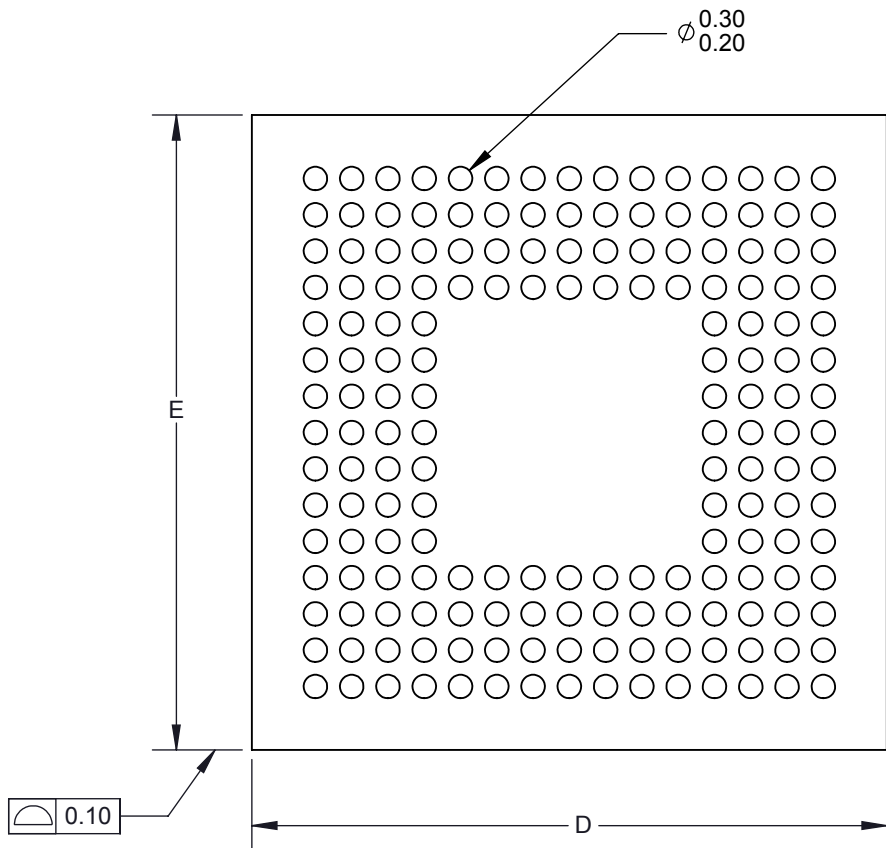
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish

Description: Recommended PCB Layout

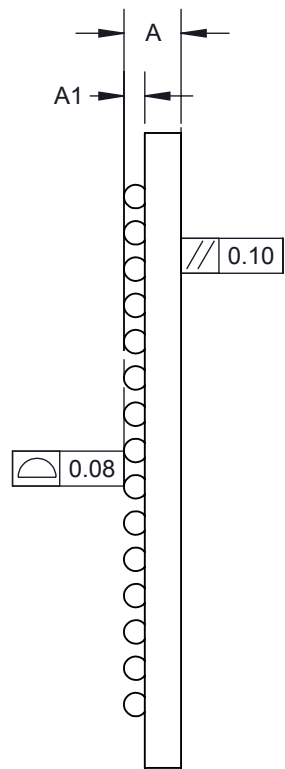
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 CBT-BGA-7504 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.13	STATUS: Released	SHEET: 2 OF 4	REV. A
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: CBT-BGA-7504 Dwg	DATE: 08/21/2014	



Bottom view



Side view


Ironwood Package Code: BGA176J1

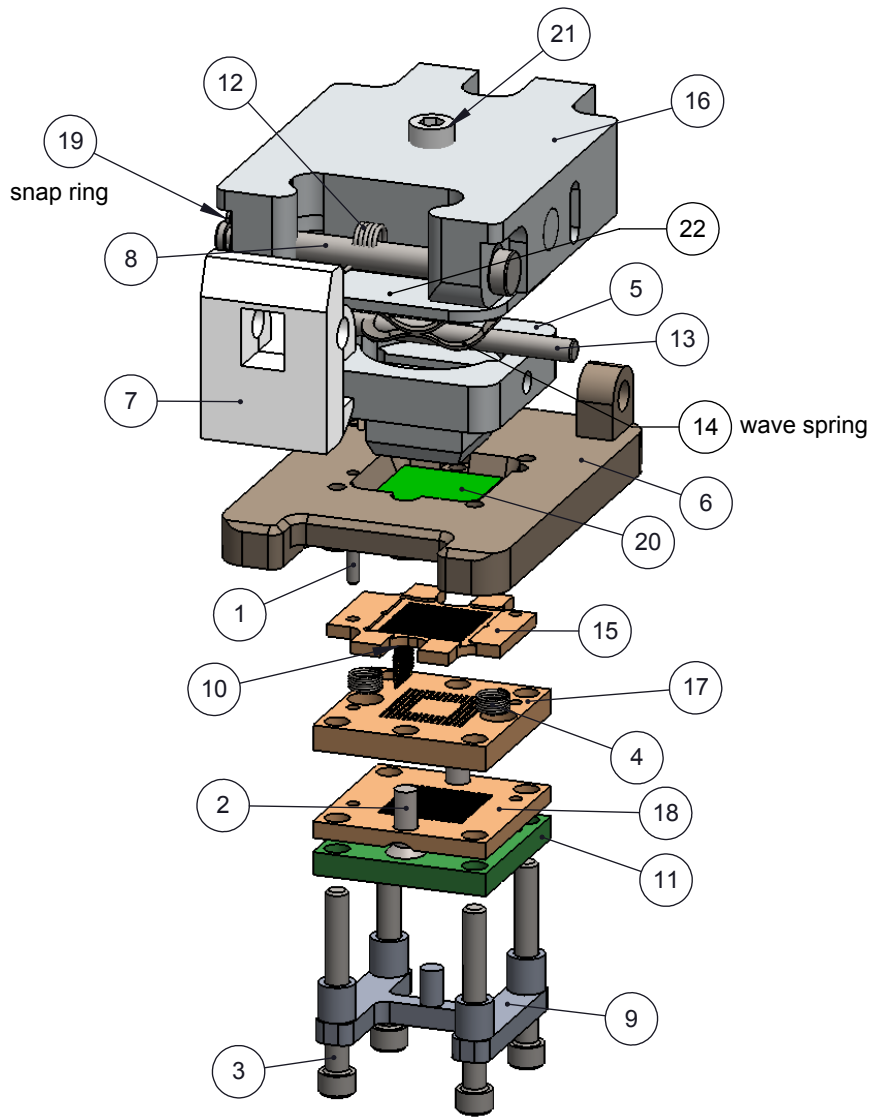
Description: Compatible BGA

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

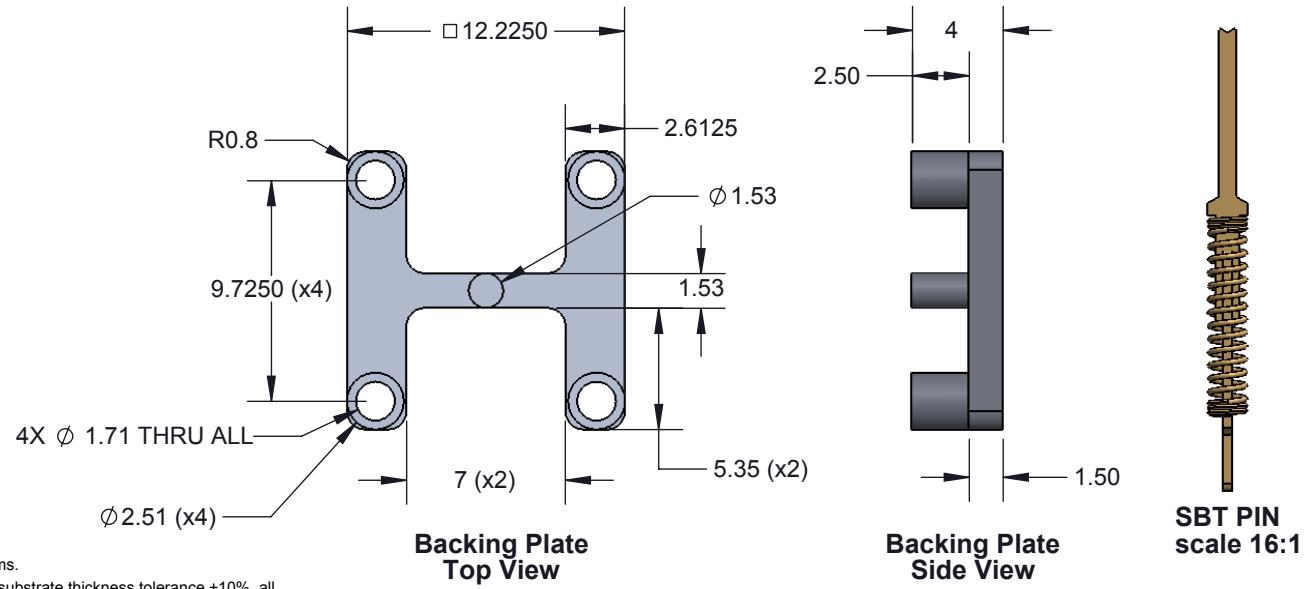
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

DIM	Minimum	Maximum
A	0.75	0.95
b	0.20	0.30
D	7.0 BSC	
E	7.0 BSC	
A1	0.14	0.24
e	0.4 BSC	
PIN COUNT		176

 CBT-BGA-7504 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.13	STATUS: Released ENG: V. Panavala FILE: CBT-BGA-7504 Dwg	SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 08/21/2014	REV. A SCALE: 12:1




ITEM NO.	DESCRIPTION	Material
1	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
2	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
3	#0-80 x 0.5, SH Cap Screw	Alloy Steel
4	Floating Guide Spring	Alloy Steel (SS)
5	Compression Plate 7x7mm	7075-T6 Alumium Alloy
6	Clamshell socket base with posts and offset, 7mm	7075-T6 Aluminum Alloy
7	Clamshell Latch Snap Lid Socket	PPS/Ultem
8	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
9	Clamshell Backing Plate, 7mm IC 5 post "H" shaped	7075-T6 Aluminum Alloy
10	Stamped Pin, 0.4mm SBT-BGA	N/A
11	Target PCB BGA176 0.4mm pitch 15x15 ar	High Temp FR4
12	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
13	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
14	Wave Spring 0.375"OD 0.15" In 100lbs/in	Steel Music Wire
15	Floating guide BGA225 0.4mm pitch 15x15 ar	Semitron MDS 100
16	Clamshell snap Socket Lid 12mm IC	7075-T6 Aluminum Alloy/Ultem
17	BGA176 0.4mm pitch 15x15 ar SBT Top spring pin guide	Semitron MDS 100
18	BGA225 0.4mm pitch 15x15 ar SBT Bottom spring pin guide	Semitron MDS 100
19	Snap ring for 2mm Hinge pin 0.15" OD	
20	Test Chip BGA176 0.4mm pitch 15x15 ar	FR4 High temp
21	Set Screw M3 Size, 3mm Long, 0.5mm Pitch	Stainless Steel (316)
22	Spacer	7075-T6 Aluminum Alloy



Description: Socket Assy. detail

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.

 CBT-BGA-7504 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.13	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-BGA-7504 Dwg	DATE: 08/21/2014	