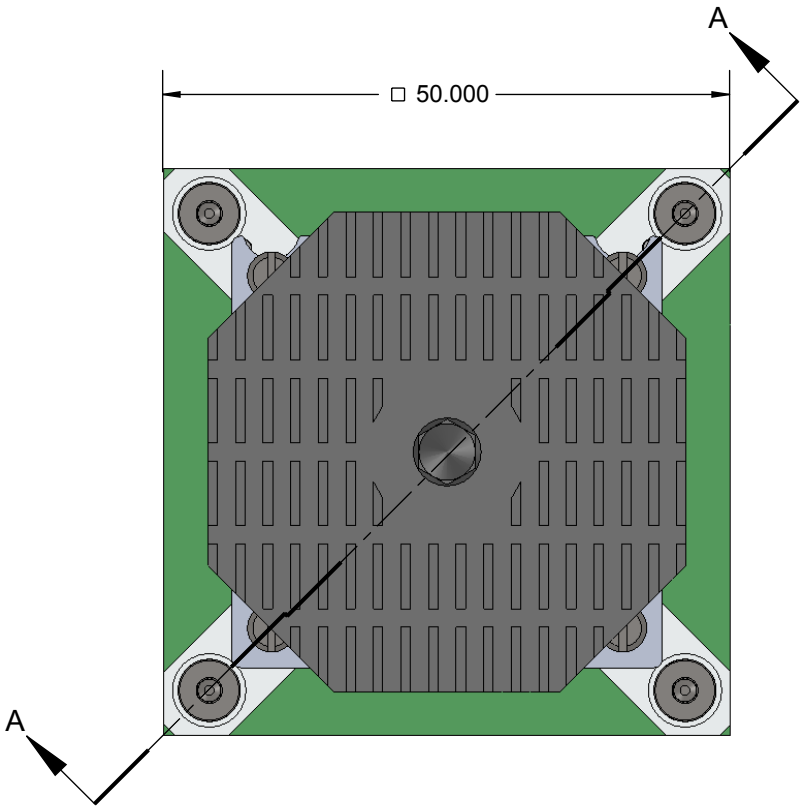
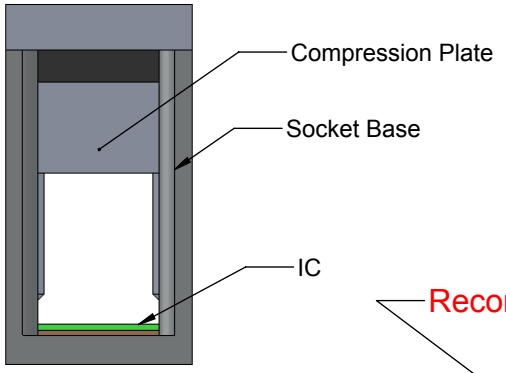
GHz BGA Socket - Direct mount, solderless

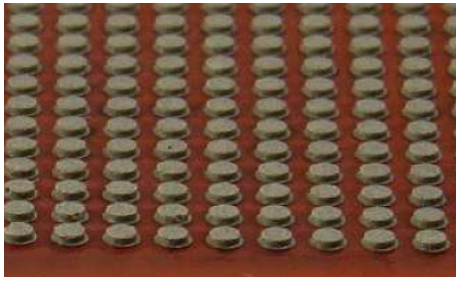
Features

- Directly mounts to target PCB (needs tooling holes) with hardware
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Ball guide prevents over compression of elastomer
- Easily removable swivel socket lid

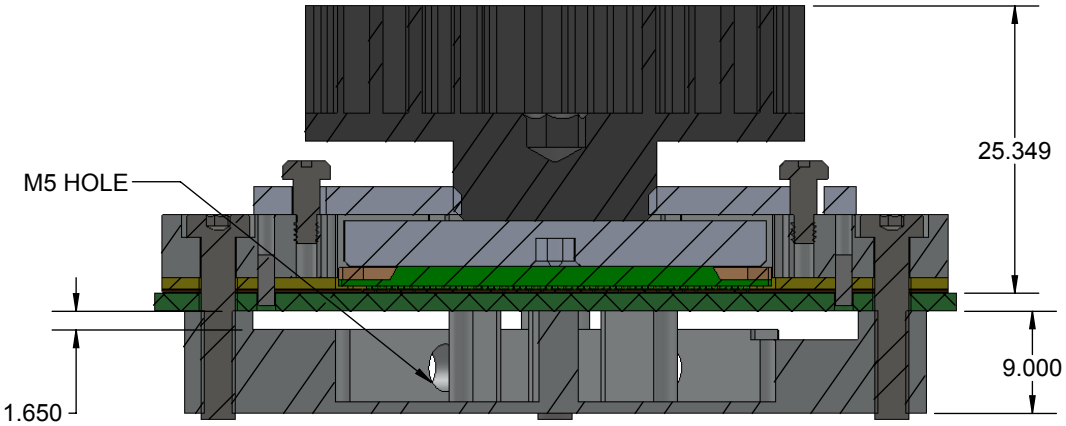




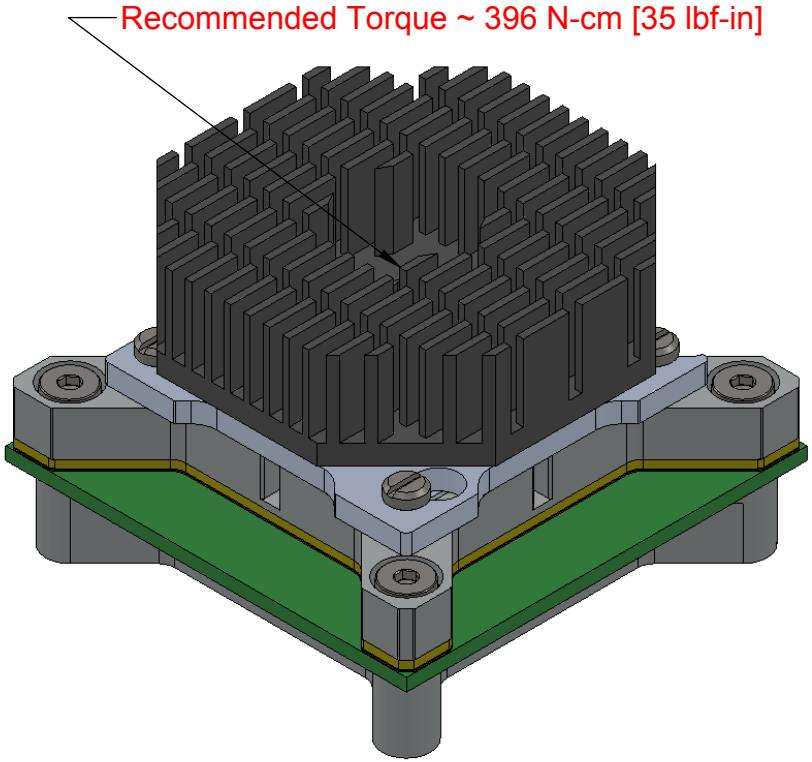
PROBE SLOT DETAIL



GT Elastomer Contactor



SECTION A-A

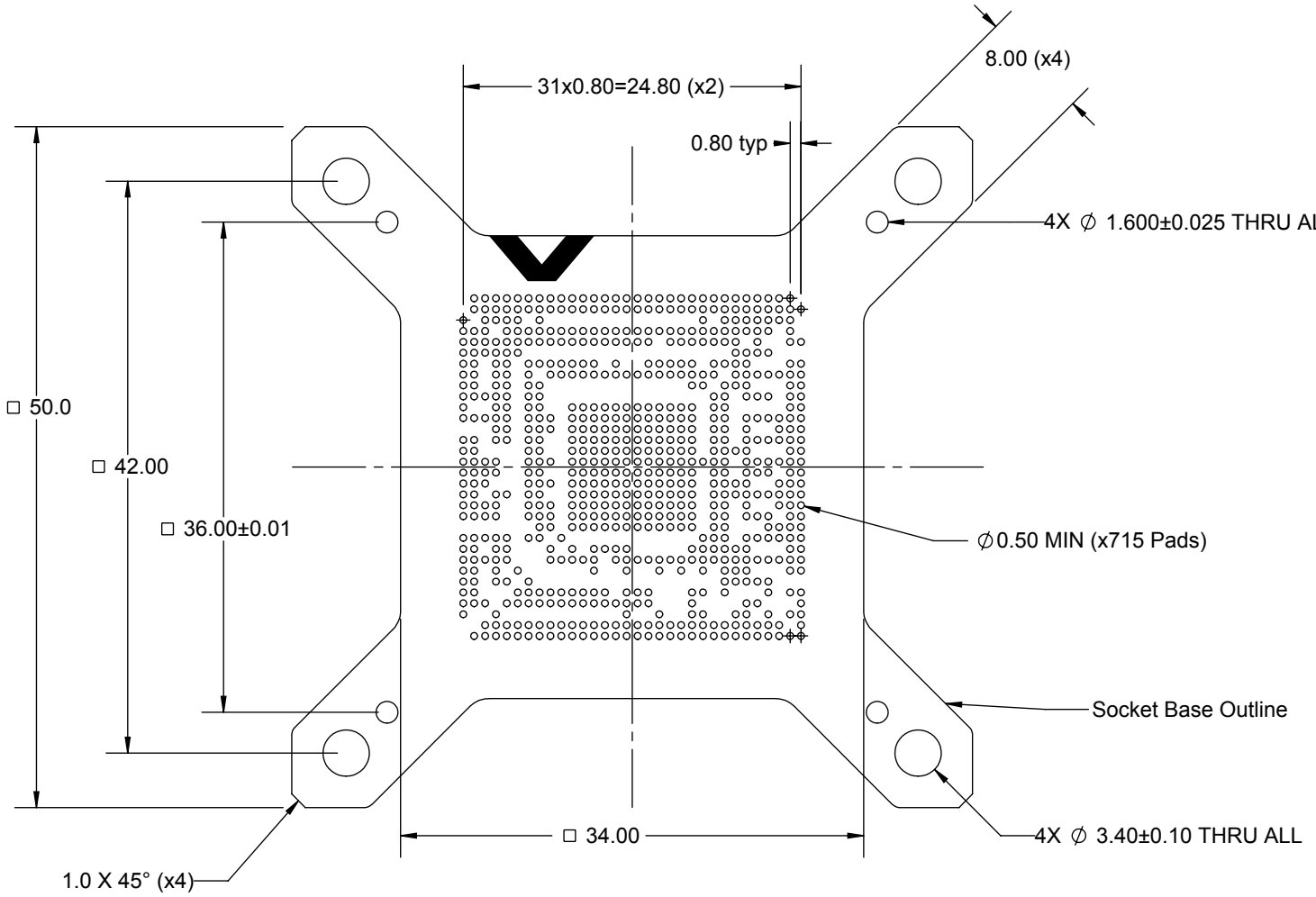


Description: GT-BGA 32x32 array 0.8mm pitch custom footprint

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.

GT-BGA-2004 Drawing	Material: N/A Finish: N/A Weight: 78.24	STATUS: Released	SHEET: 1 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: B. Schatz	DRAWN BY: D. Hauer	SCALE: 3:2
		FILE: GT-BGA-2004 Dwg	DATE: 5/27/14	



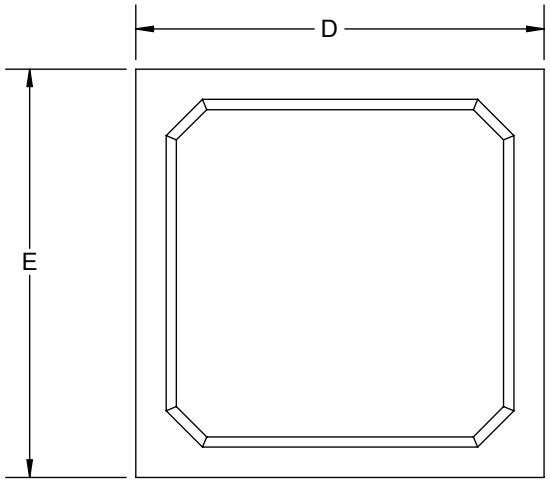
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder Finish
PCB Pad Height: Same or higher than solder mask

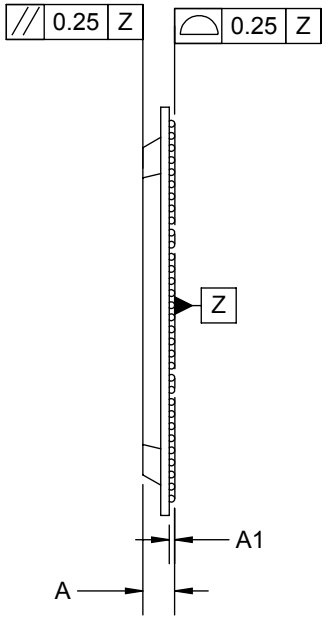
Description: Recommended PCB Layout

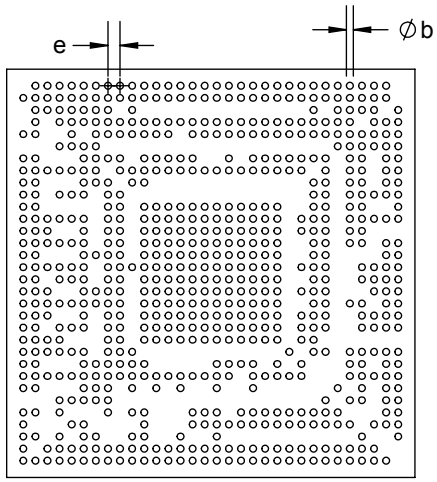
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters ±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.

GT-BGA-2004 Drawing	Material: N/A Finish: N/A Weight: 78.24	STATUS: Released	SHEET: 2 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: B. Schatz	DRAWN BY: D. Hauer	SCALE: 2:1
		FILE: GT-BGA-2004 Dwg	DATE: 5/27/14	







DIM	MIN	MAX
A	-	2.5
A1	0.3	0.5
b	0.35	0.55
D	26.8	27.2
E	26.8	27.2
e	0.80	
Array	32 x32	
Max Ball Count*	1024	

Dimensions are in millimeters.

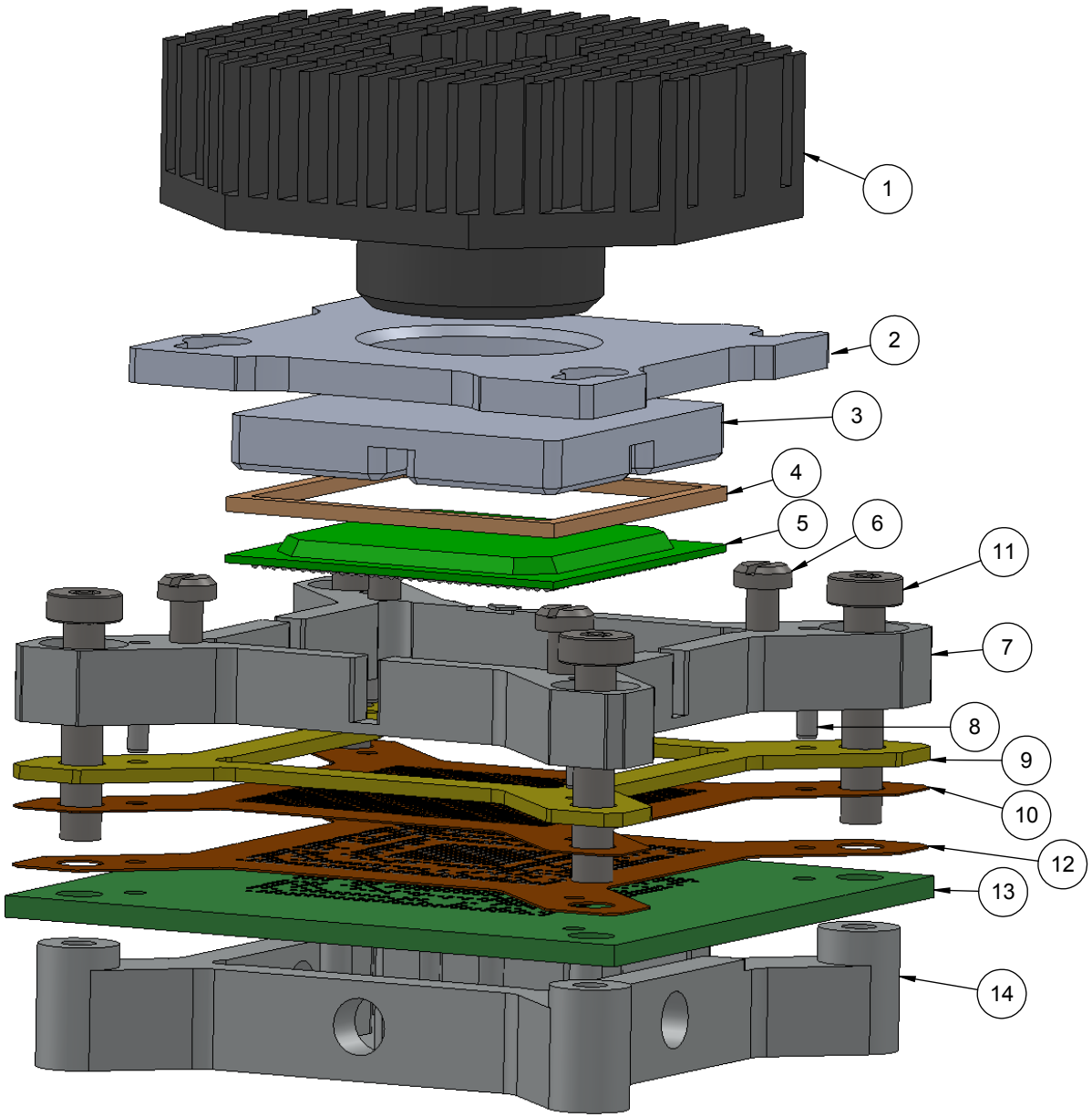
1. Interpret dimensions and tolerances per ASME Y14.5M-1994.
2. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
3. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
4. Parallelism measurement shall exclude any effect of mark on top surface of package.

Description: Compatible Device

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.

GT-BGA-2004 Drawing	Material: N/A Finish: N/A Weight: 78.24	STATUS: Released	SHEET: 3 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: B. Schatz	DRAWN BY: D. Hauer	SCALE: 2:1
		FILE: GT-BGA-2004 Dwg	DATE: 5/27/14	



ITEM NO.	DESCRIPTION	Material
1	Compression Screw	Aluminum Alloy
2	Socket Lid	Aluminum Alloy
3	Compression Plate	Aluminum Alloy
4	IC Frame	Ultem
5	Test Chip	N/A
6	Shoulder Screw	Stainless Steel
7	Socket Base	Aluminum Alloy
8	Dowel Pin	Stainless Steel
9	IC Guide	Torlon 4203
10	Ball Guide	Kapton Polyimide/Cirlex
11	Mounting Screw	Stainless Steel
12	GT Elastomer	Conductive columns in Kapton Polyimide
13	Target PCB	N/A
14	Backing Plate	Aluminum Alloy

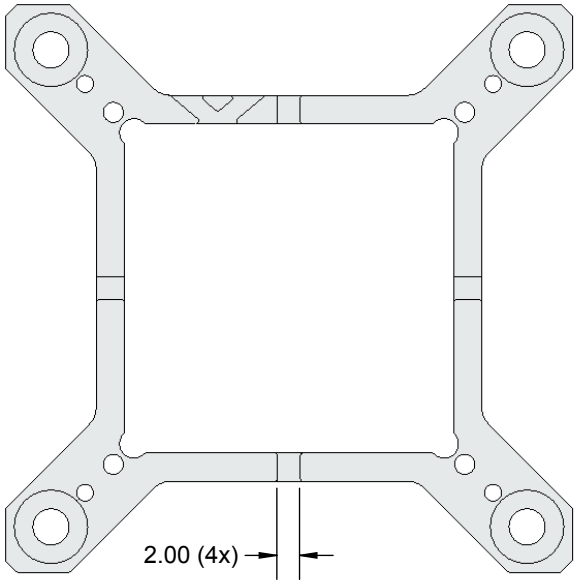
Description: Exploded View

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

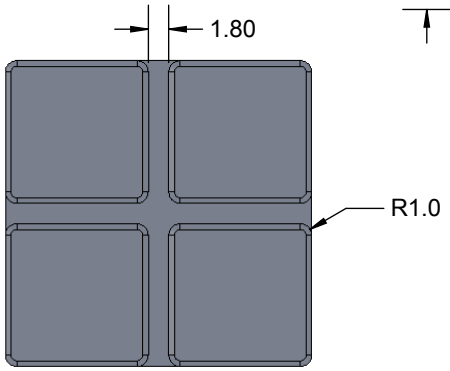
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

GT-BGA-2004 Drawing	Material: N/A Finish: N/A Weight: 78.24	STATUS: Released	SHEET: 4 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: B. Schatz	DRAWN BY: D. Hauer	SCALE: 2:1
		FILE: GT-BGA-2004 Dwg	DATE: 5/27/14	

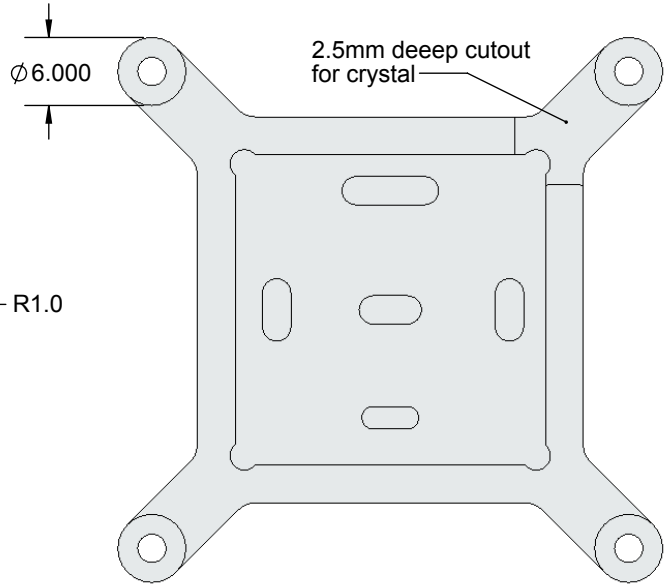
SOCKET BASE

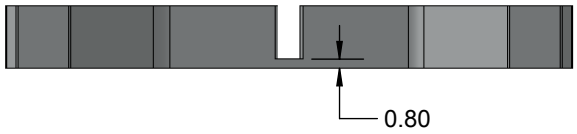


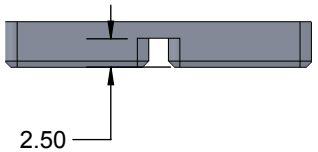
COMPRESSION PLATE

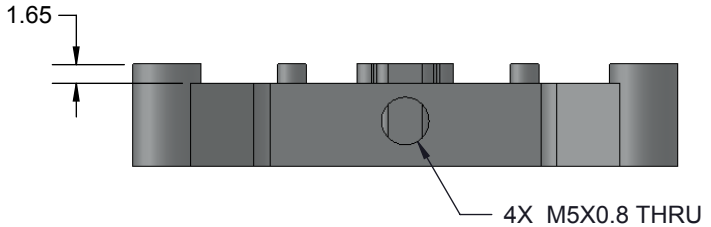


BACKING PLATE









Description: Base, Compression & Backing Pl

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.

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		FILE: GT-BGA-2004 Dwg	DATE: 5/27/14	