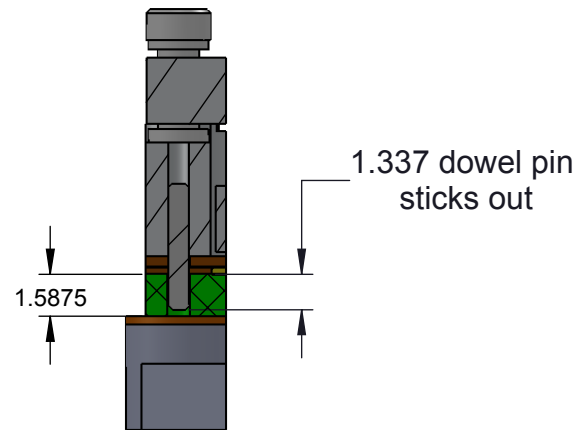
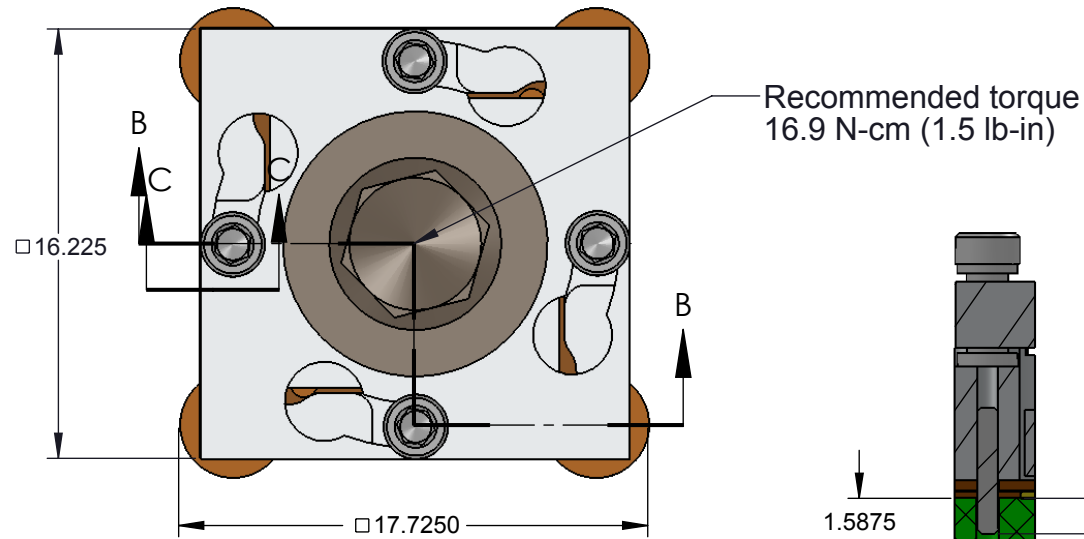


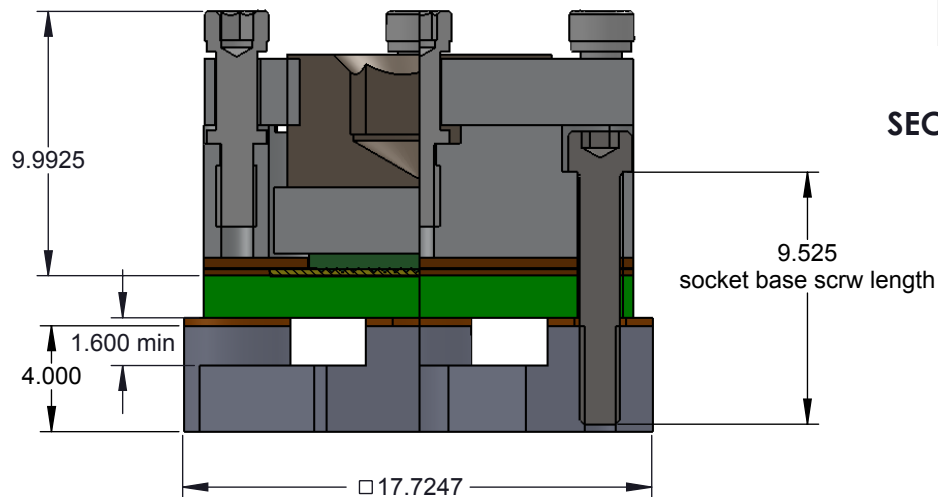
GHz BGA SOCKET - direct mount, solderless

Features

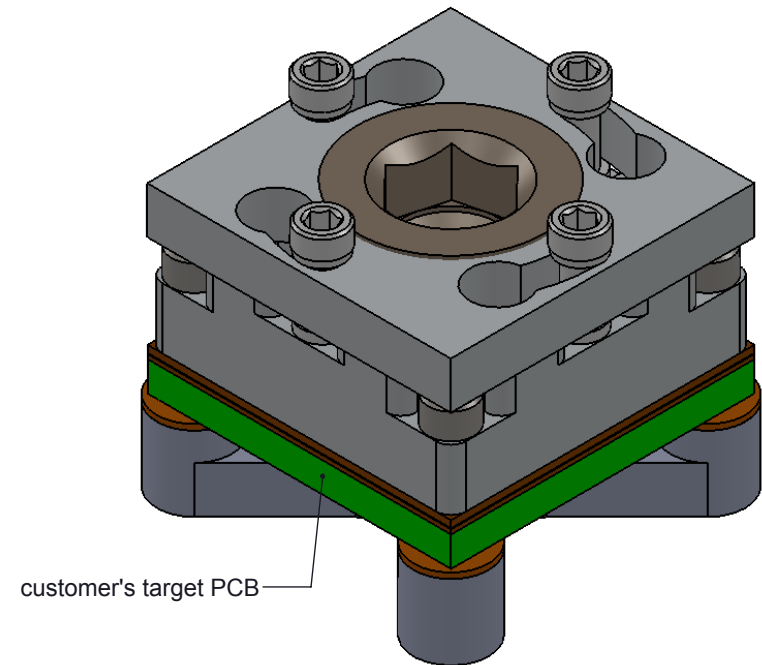
- Directly mounts to target PCB (needs tooling holes) with hardware
- High speed reliable elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable swivel socket lid



SECTION C-C



SECTION B-B



Description: Socket

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.

SG25-BGA-2003 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 7.74

STATUS: Released

ENG: E. Smolentseva

FILE: SG25-BGA-2003 Dwg

SHEET: 1 OF 4

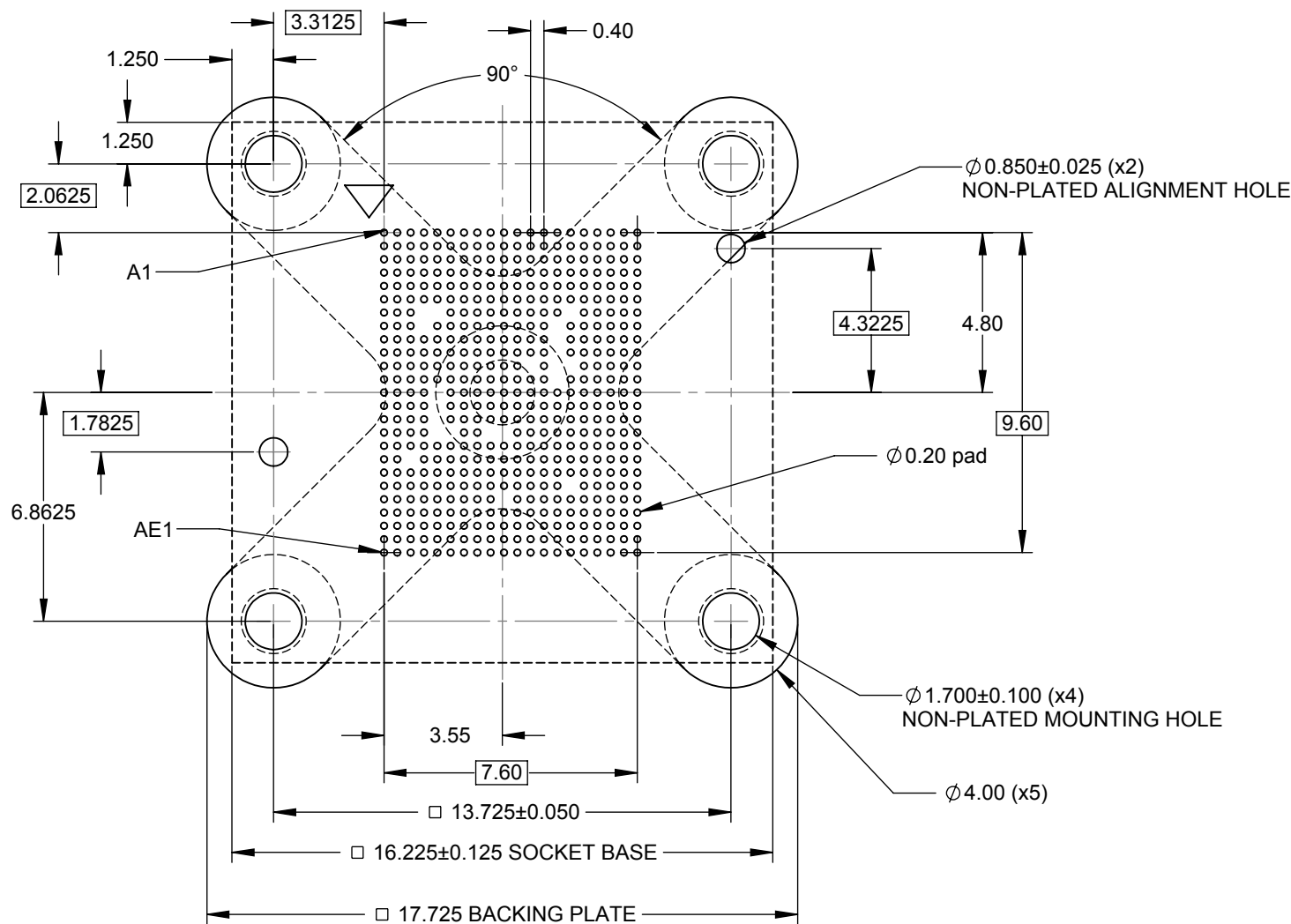
DRAWN BY: M. Raske

DATE: 4/16/2015

REV. A

SCALE: 3.5:1

***Note: BGA pattern is shifted by 0.25 to right with respect to the mounting holes.**



Target PCB Recommendations

Total thickness: 1.5875mm 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 $\pm 0.03\text{mm}$ [$\pm 0.001"$], 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.

SG25-BGA-2003 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 7.74

STATUS: Released

ENG: E. Smolentseva

FILE: SG25-BGA-2003 Dwg

SHEET: 2 OF 4

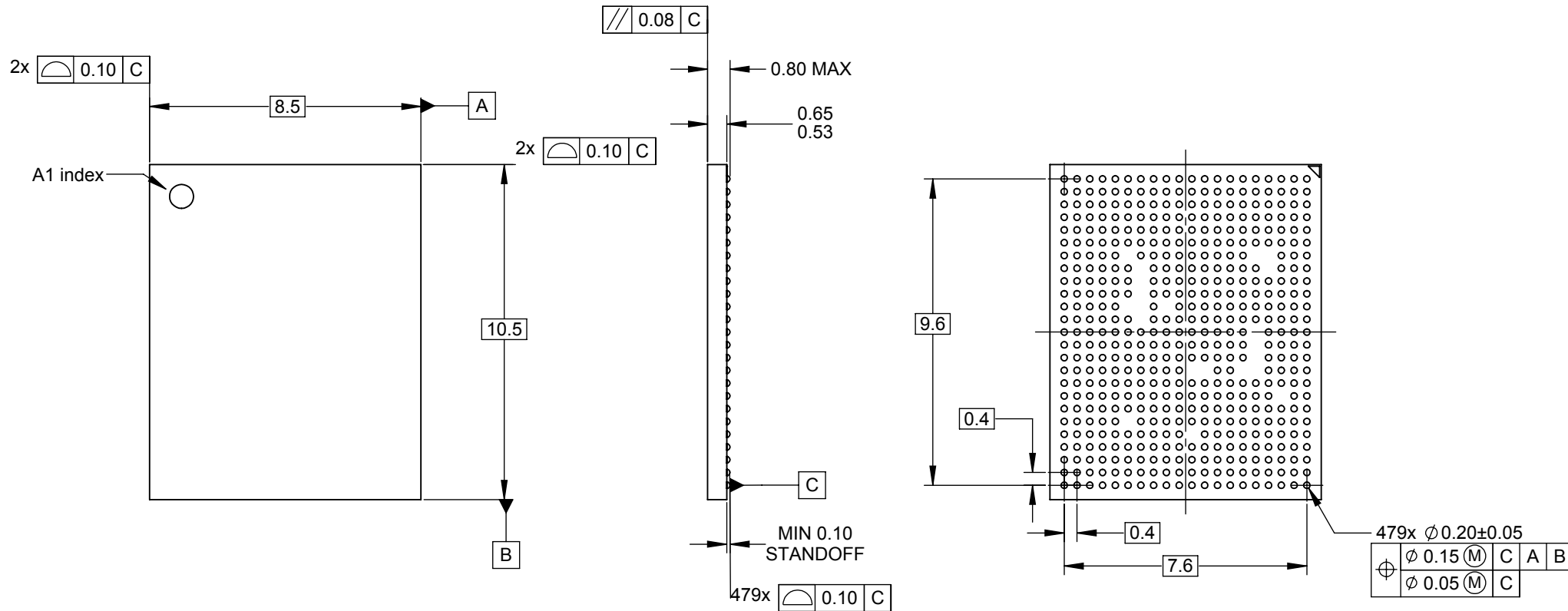
DRAWN BY: M. Raske

DATE: 4/16/2015

REV. A

SCALE: 5:1


Ironwood Package Code BGA479B

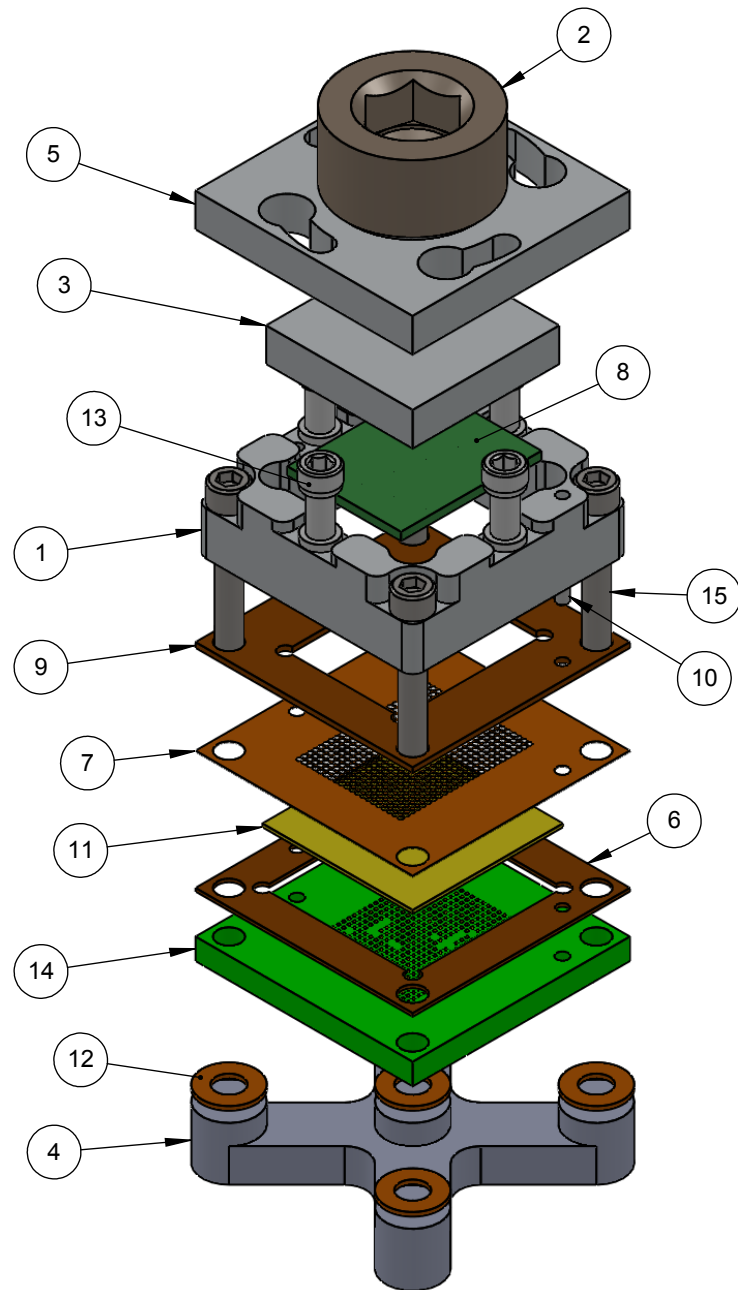


Description: BGA

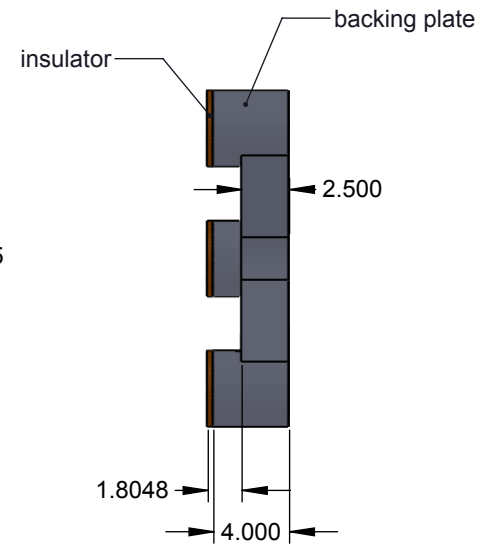
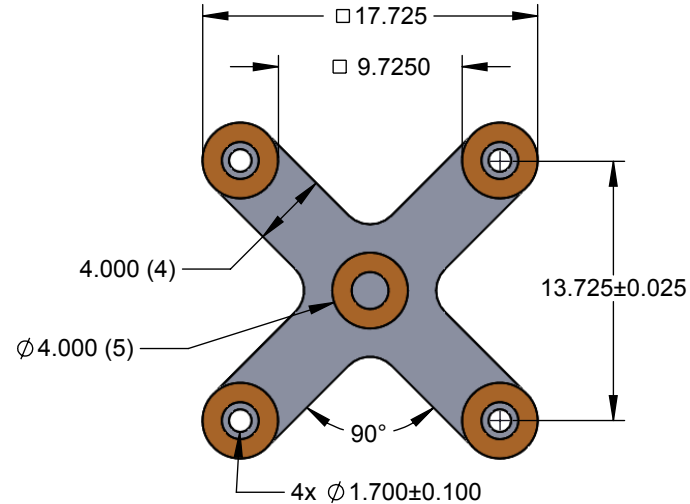
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

SG25-BGA-2003 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 7.74	STATUS: Released	SHEET: 3 OF 4	REV. A
		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 5.5:1
		FILE: SG25-BGA-2003 Dwg	DATE: 4/16/2015	



ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Compression Screw M10	7075-T6 Alumium Alloy
3	Compression Plate 11x11mm IC 2.5mm thick	7075-T6 Aluminum Alloy
4	"X" shaped Backing Plate for 11mm chip	7075-T6 (SN)
5	Socket Lid Swivel 11mm IC	7075-T6 Aluminum Alloy
6	Elastomer Guide	Kapton Polyimide/Cirlex
7	Ball Guide for 20x25 0.4mm pitch array	Kapton Polyimide
8	Customer's device	FR4 Standard
9	IC Guide	Kapton Polyimide/Cirlex
10	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
11	0.25mm thick, 0.05x 0.05mm pitch elastomer	20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.25mm
12	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
13	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
14	Customer's target PCB	FR4 High temp
15	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel



Description: Skt, Insulation Plate, Pin Det

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.

SGT5-BGA-2003 Drawing



Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 7.74

STATUS: Released

ENG: E. Smolentseva

FILE: SGT5-BGA-2003 Dwg

SHEET: 4 OF 4

DRAWN BY: M. Raske

DATE: 4/16/2015

REV. A

SCALE: 2.5:1