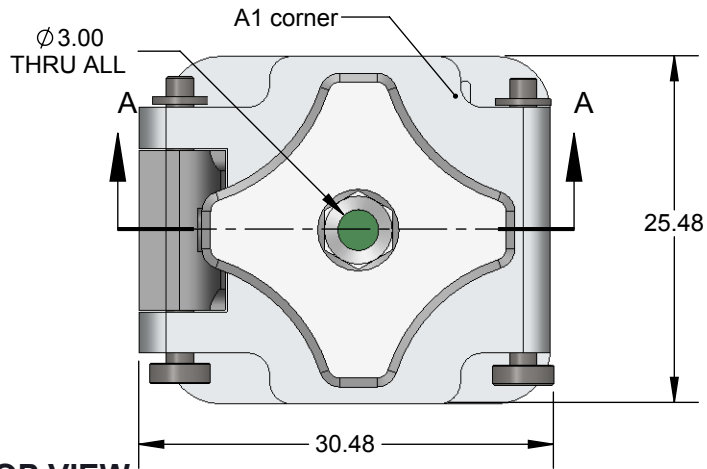


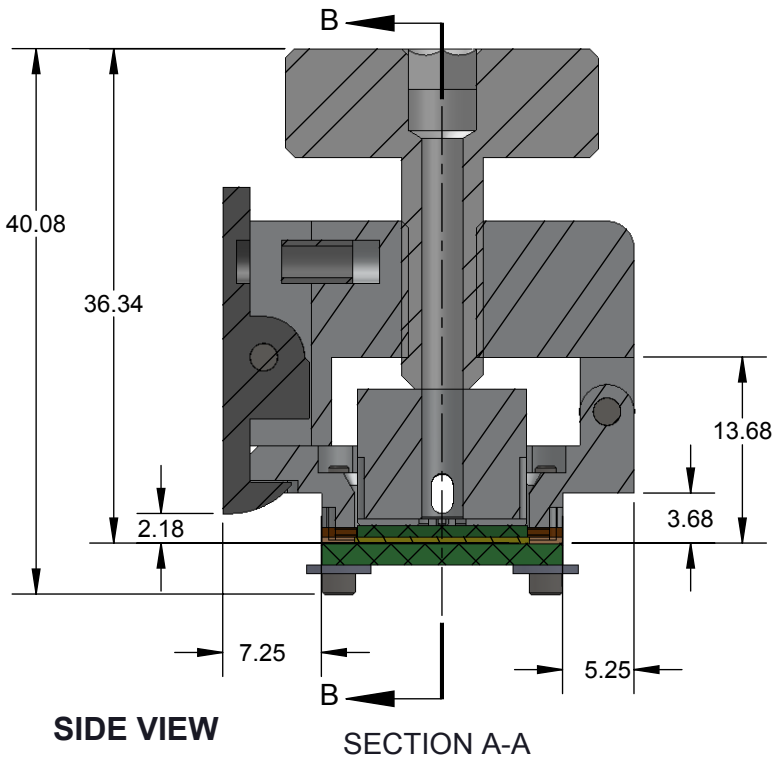
GHz QFN Socket - Direct mount, solderless

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
- Hinged clamshell socket lid



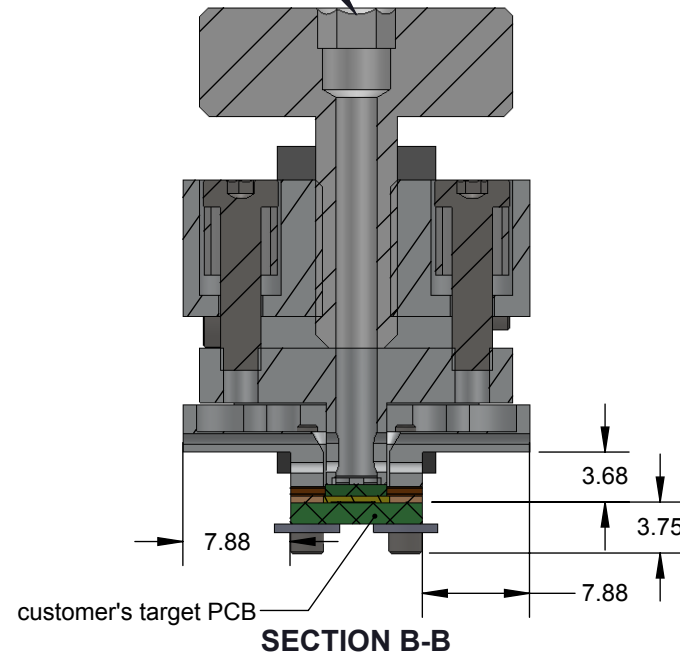
TOP VIEW



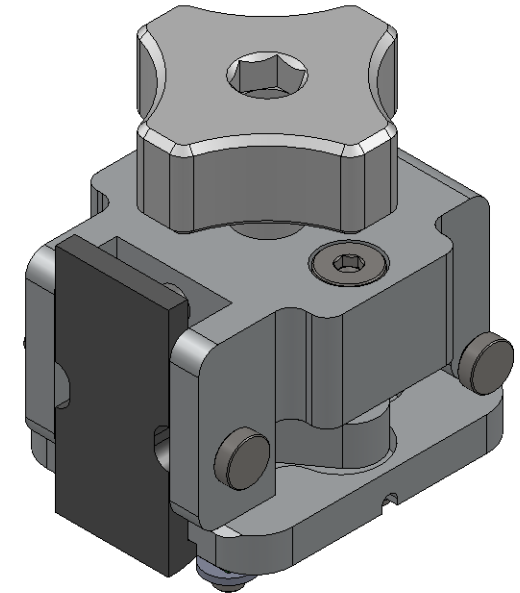
SIDE VIEW

SECTION A-A

Recommended torque is 1.5 in lb (24 in oz.)



SECTION B-B



Description: Clam shell socket for 4.5x12.5mm, 0.4mm pitch QFN74

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.

CG-QFN-7010 Drawing



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

Material: N/A
Finish: N/A
Weight: 38.75

STATUS: Released

ENG: E. Smolentseva

FILE: CG-QFN-7010 Dwg

SHEET: 1 OF 6

DRAWN BY: M. Raske

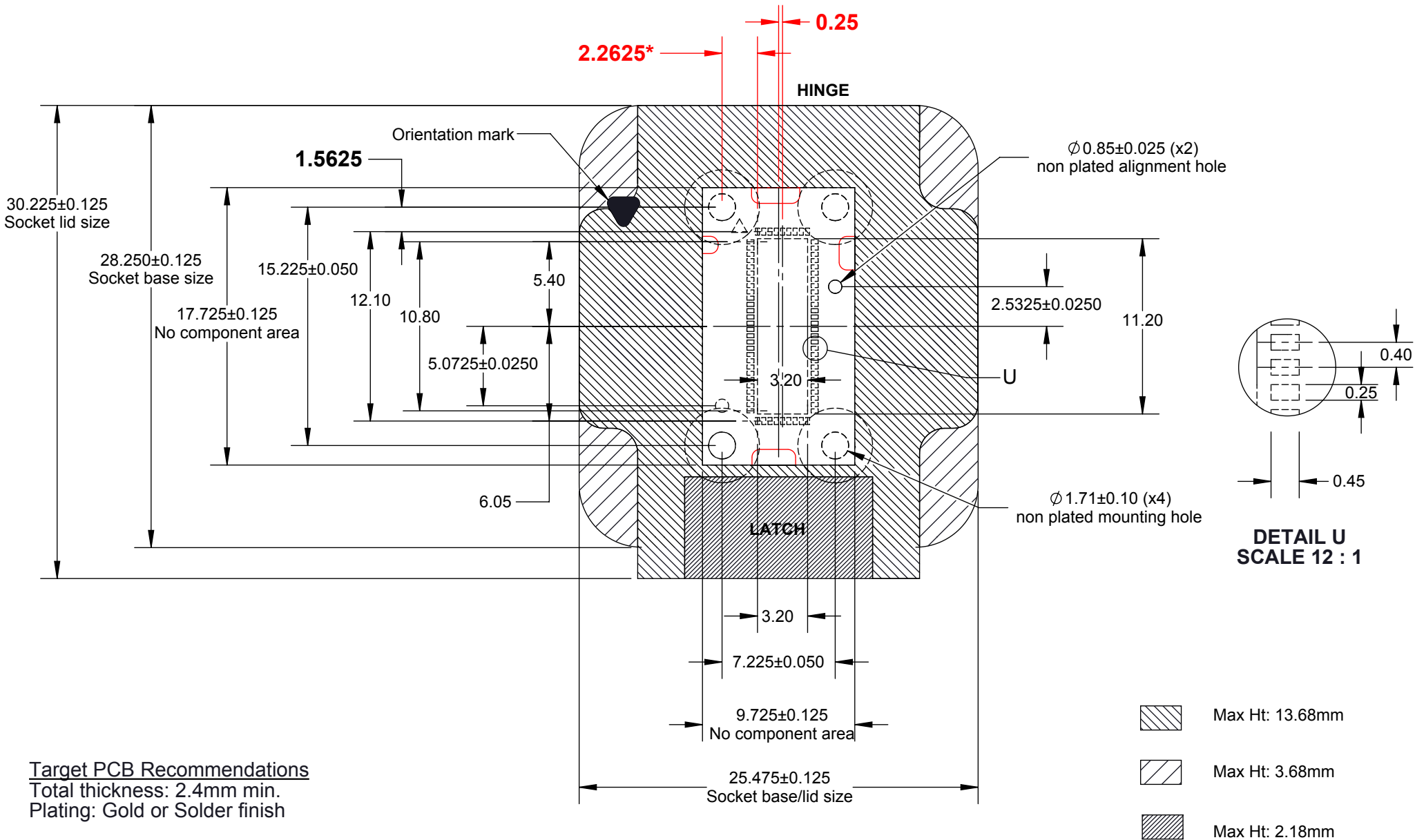
DATE: 01/09/2015

REV. A

SCALE: 1.8:1

***Note: QFN pattern is not symmetrical with respect to the mounting holes. The pattern is shifted to the right of center by 0.25mm.**


RED COLORED AREA DENOTE CUTOUT AREAS IN THE SOCKET BASE, 1.5MM HIGH

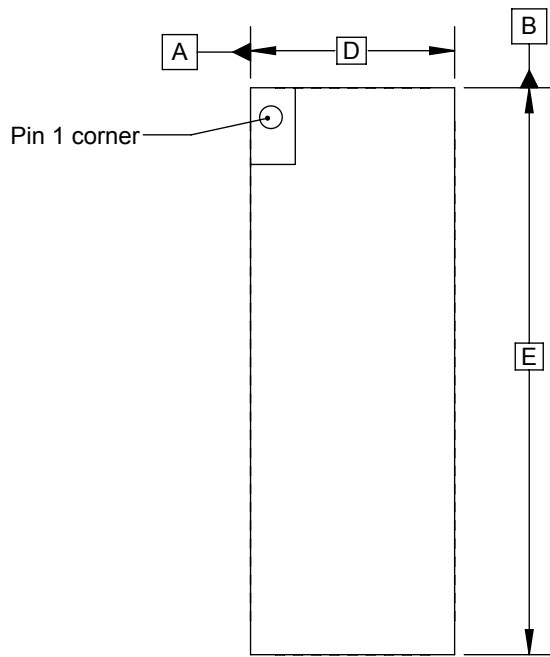


Target PCB Recommendations
 Total thickness: 2.4mm min.
 Plating: Gold or Solder finish

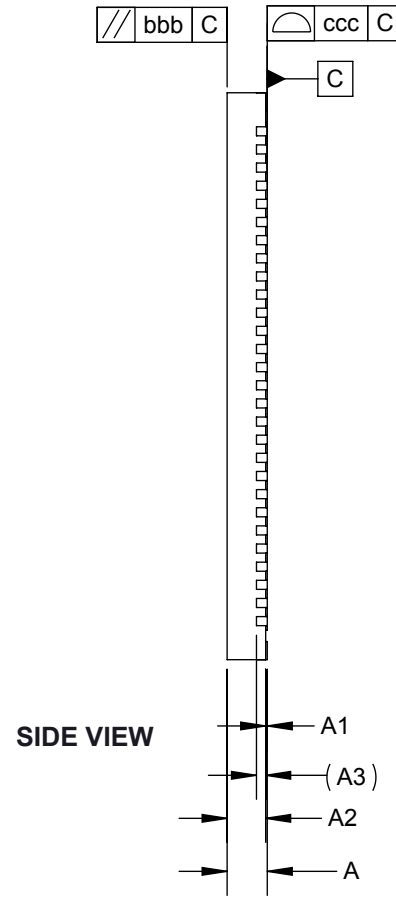
Description: Recommended PCB Layout

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
 Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], 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.

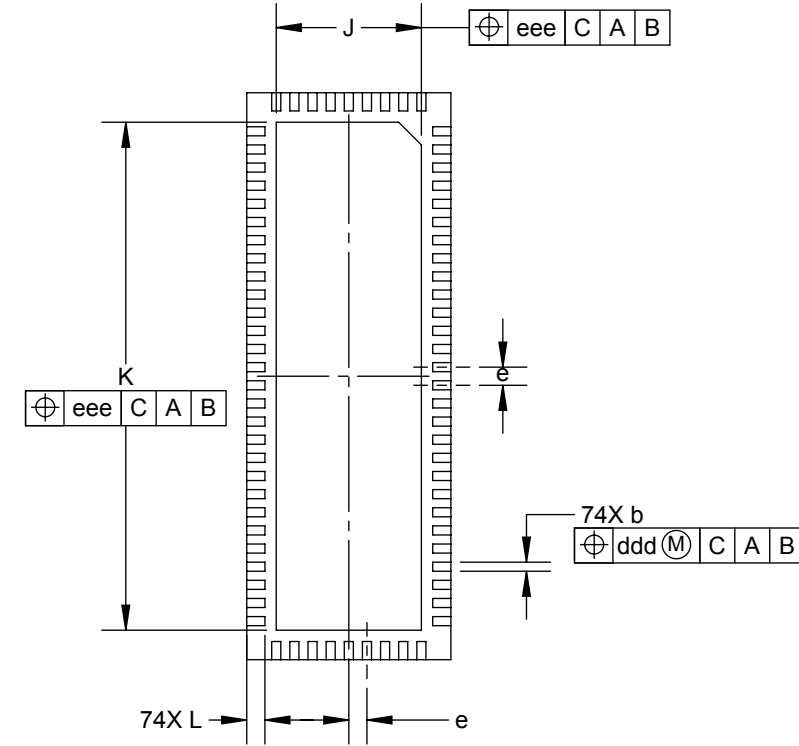
| | | | | |
|---|---|--|---|----------------------|
|  CG-QFN-7010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Material: N/A Finish: N/A Weight: 38.75 | STATUS: Released ENG: E. Smolentseva FILE: CG-QFN-7010 Dwg | SHEET: 2 OF 6 DRAWN BY: M. Raske DATE: 01/09/2015 | REV. A SCALE: 3:1 |
| | | | | |



TOP VIEW



SIDE VIEW



BOTTOM VIEW


Ironwood Package Code QFN74A

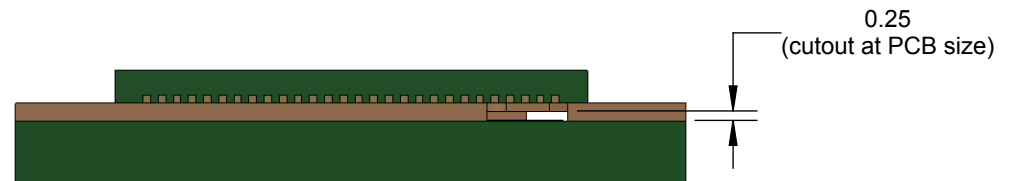
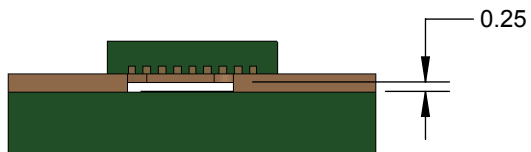
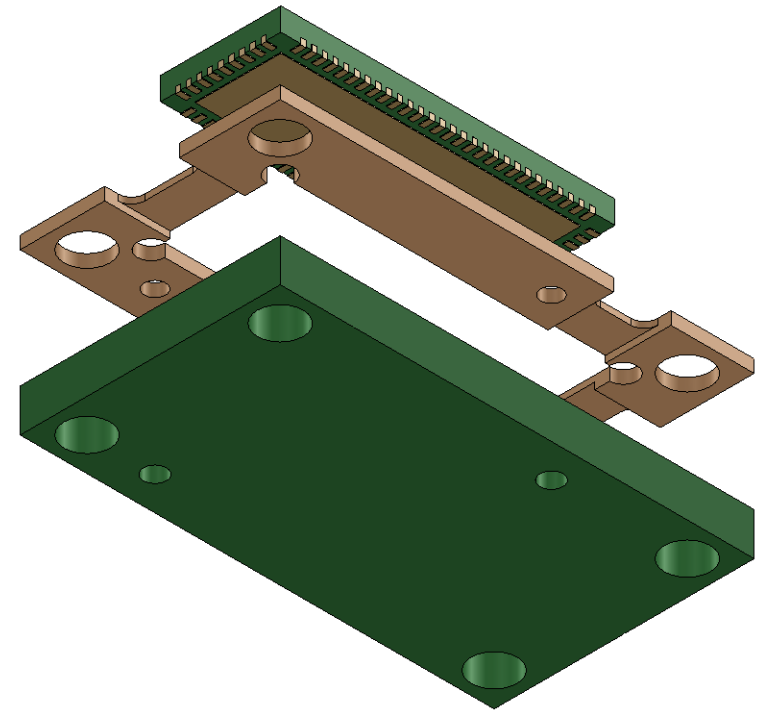
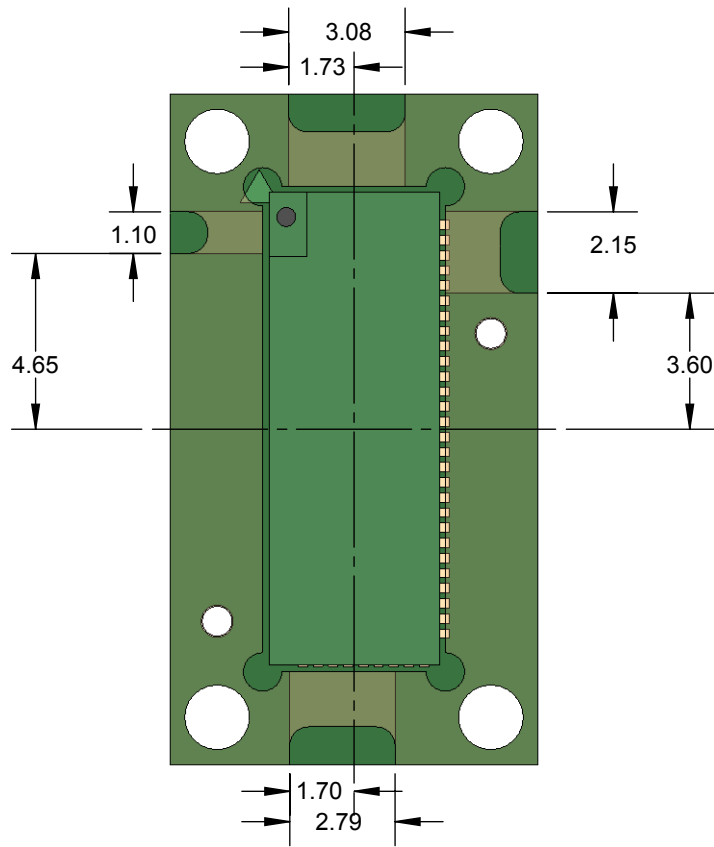
| Dimension | Min | Nom | Max |
|-----------|-----------|-------|-------|
| A | 0.8 | 0.85 | 0.9 |
| A1 | 0 | 0.035 | 0.05 |
| A2 | 0.65 | | |
| A3 | 0.203 REF | | |
| J | 3.15 | 3.2 | 3.25 |
| K | 11.11 | 11.2 | 11.25 |
| L | 0.35 | 0.40 | 0.45 |
| b | 0.15 | 0.2 | 0.25 |
| D | 4.4 | 4.5 | 4.6 |
| E | 12.4 | 12.5 | 12.6 |
| e | 0.4 BSC | | |
| bbb | 0.10 | | |
| ccc | 0.08 | | |
| ddd | 0.1 | | |
| eee | 0.1 | | |

Description: Compatible device

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.


| | | | | |
|--|---|--|---|----------------------|
|  CG-QFN-7010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Material: N/A Finish: N/A Weight: 38.75 | STATUS: Released ENG: E. Smolentseva FILE: CG-QFN-7010 Dwg | SHEET: 3 OF 6 DRAWN BY: M. Raske DATE: 01/09/2015 | REV. A SCALE: 6:1 |
| | | | | |

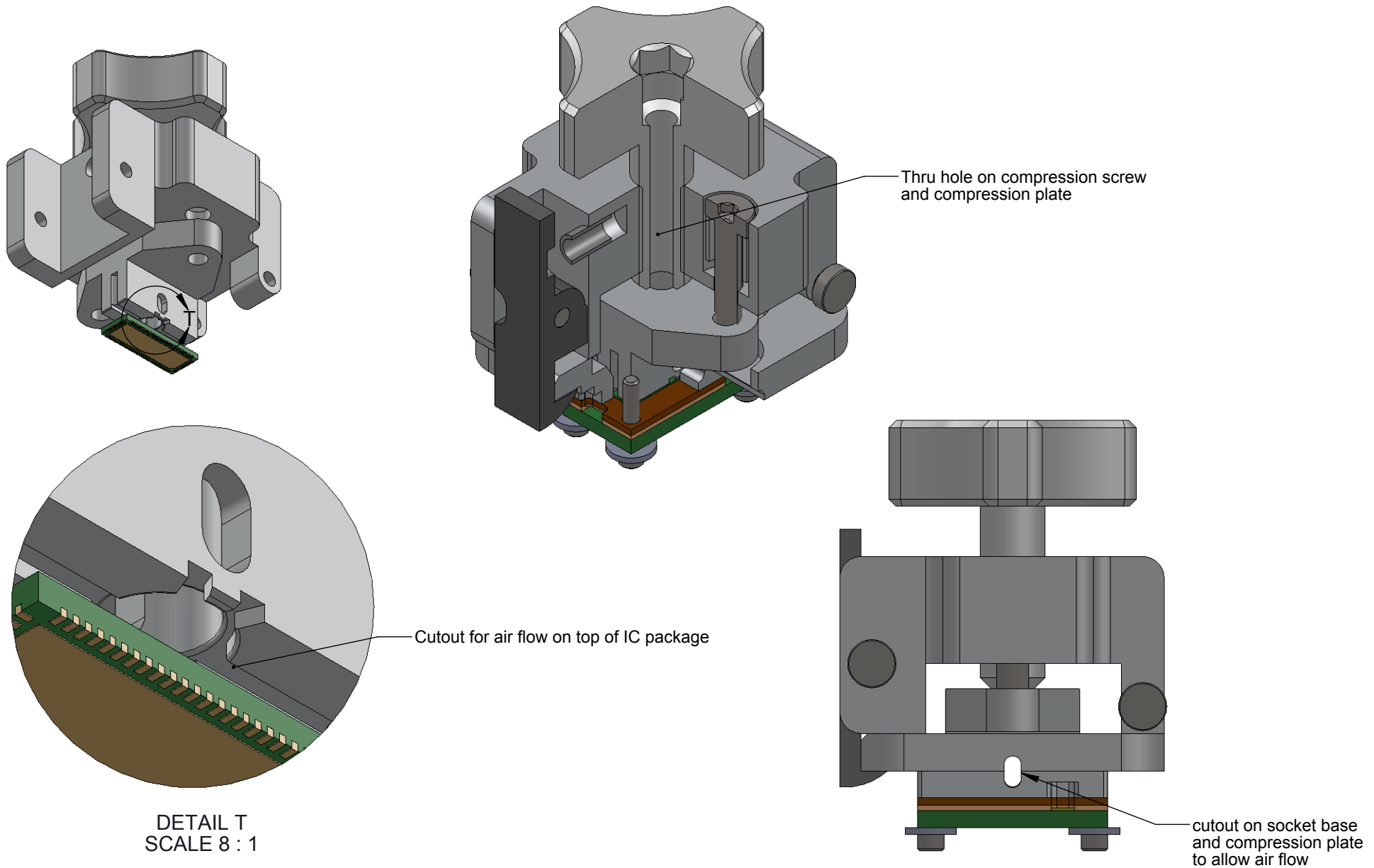


Description: Detail VW of Elastom GD cut

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.

| | | | | |
|--|---|-----------------------|--------------------|------------|
|  CG-QFN-7010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Material: N/A Finish: N/A Weight: 38.75 | STATUS: Released | SHEET: 4 OF 6 | REV. A |
| | | ENG: E. Smolentseva | DRAWN BY: M. Raske | SCALE: 5:1 |
| | | FILE: CG-QFN-7010 Dwg | DATE: 01/09/2015 | |



Description: Compression plate details

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.

CG-QFN-7010 Drawing



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

Material: N/A
Finish: N/A
Weight: 38.75

STATUS: Released

ENG: E. Smolentseva

FILE: CG-QFN-7010 Dwg

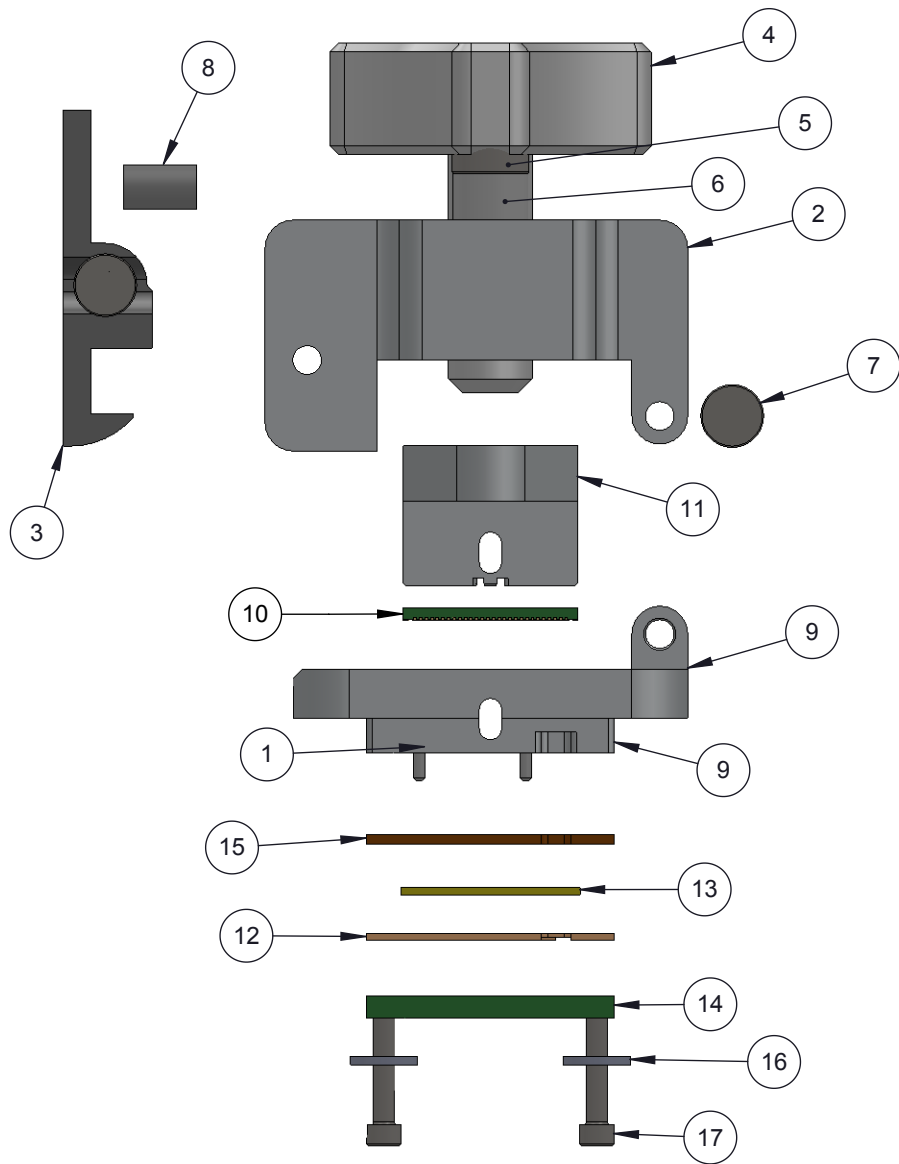
SHEET: 5 OF 6

DRAWN BY: M. Raske

DATE: 01/09/2015

REV. A

SCALE: 2:1




| NO. | DESCRIPTION | Material |
|-----|--|--|
| 1 | Alignment Pin 1/32" dia. x 1/8" lng | Chrome Stainless Steel |
| 2 | Clam Shell Lid | 7075-T6 Aluminum Alloy |
| 3 | Latch 6- 10mm Ni plated | 7075-T6 Aluminum Alloy |
| 4 | M6x1 fluted knob compression screw | 7075-T6 Aluminum Alloy |
| 5 | Screw, M3 x 12mm, Low Head Cap, SS | 18-8 Stainless Steel |
| 6 | Spring Clamshell lid assembly | Steel Music Wire |
| 7 | Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS | Stainless Steel (ferritic) |
| 8 | Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire | Zinc Plated Music Wire |
| 9 | Clam shell socket base | 7075-T6 Aluminum Alloy |
| 10 | Customer's device | FR4 Standard |
| 11 | Compression Plate | 7075-T6 Aluminum Alloy |
| 12 | Elastomer guide | Ultem 1000 |
| 13 | 0.5mm thick, 0.05x 0.05mm pitch, Z-axis conductive angled elastomer | 20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm |
| 14 | Customer's target PCB | FR4 High temp |
| 15 | IC Guide for 4.5x12.5mm IC | Kapton Polyimide/Cirlex |
| 16 | Washer, #0 x .025", Nylon | Nylon 6/6 |
| 17 | #0-80 X .313 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE | Alloy Steel |

Description: Socket Detail

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.

| | | | | |
|--|---|-----------------------|--------------------|---------------|
|  CG-QFN-7010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | Material: N/A Finish: N/A Weight: 38.75 | STATUS: Released | SHEET: 6 OF 6 | REV. A |
| | | ENG: E. Smolentseva | DRAWN BY: M. Raske | SCALE: 1.85:1 |
| | | FILE: CG-QFN-7010 Dwg | DATE: 01/09/2015 | |