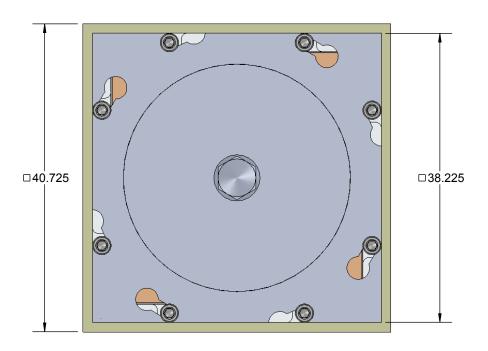
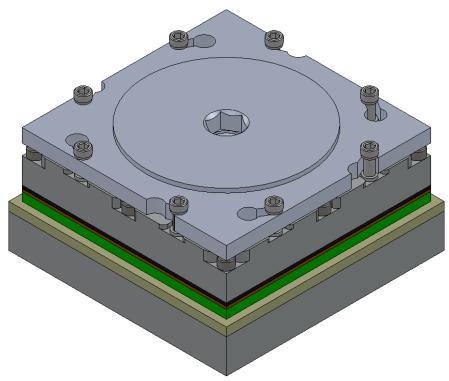
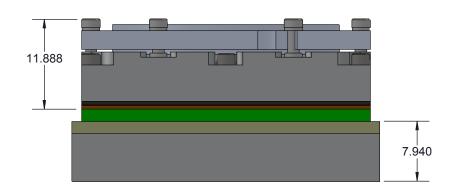
GHz QFE Socket - Direct mount, solderless



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
 Lead guide prevents over compression of elastomer
 Easily removable swivel socket lid





Description: SG-QFE208 Socket

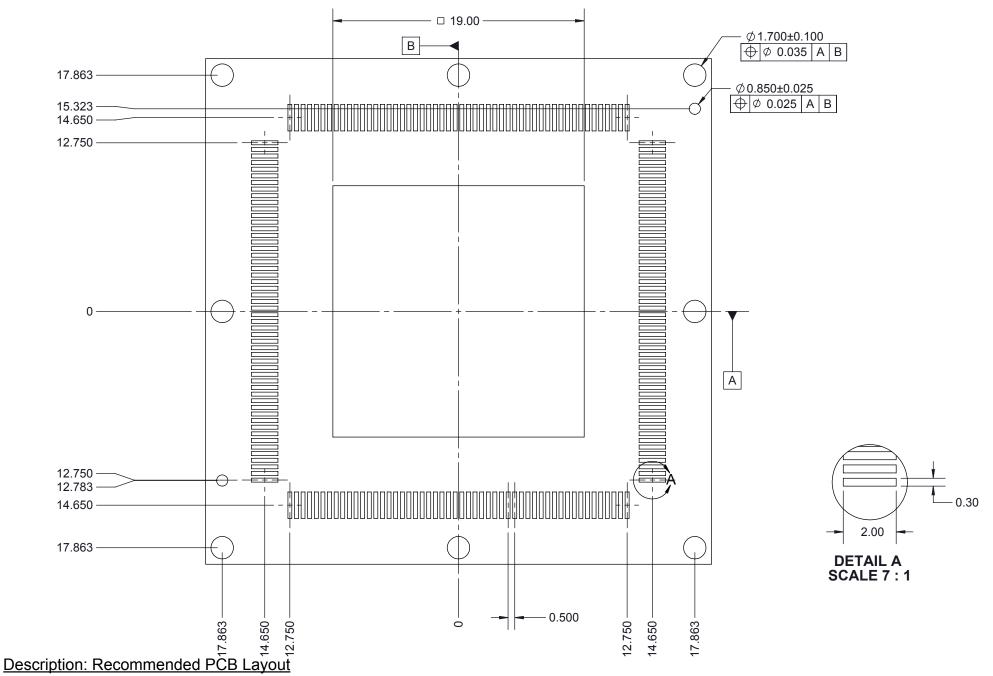
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

| SG-QFE-7013 Drawing | | |
|---------------------|---|--|
| • | Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com | |

Material: N/A Finish: N/A Weight: 64.82

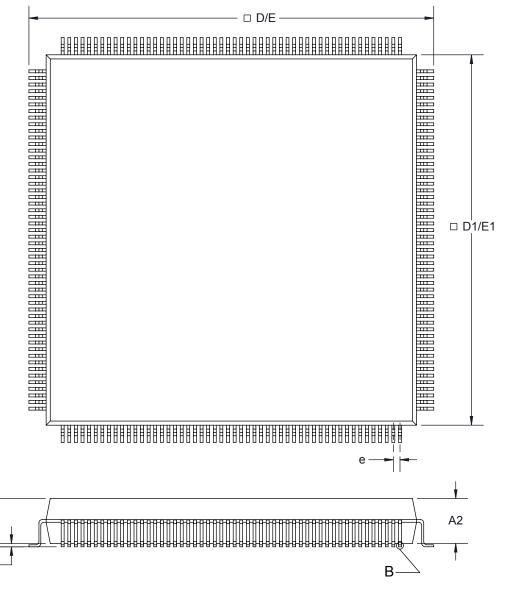
| STATUS: Released | SHEET: 1 OF 4 | REV. B |
|-----------------------|--------------------|------------|
| ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 2:1 |
| FILE: SG-QFE-7013 Dwg | DATE: 06/21/2013 | |



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.

SG-QFE-7013 Drawing Material: N/A STATUS: Released SHEET: 2 OF 4 REV. B Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Finish: N/A Weight: 64.82 ENG: B. Fedde DRAWN BY: M. Raske SCALE: 3.5:1 FILE: SG-QFE-7013 Dwg DATE: 06/21/2013



Irownood Package Code: QFE208SBx Please confirm compatibility with Ironwood engineering prior to ordering



DETAIL B SCALE 32:1

| DIM | MIN | MAX |
|-----|------|------|
| Α | | 4.07 |
| A1 | 0.15 | 0.35 |
| A2 | 3.2 | 3.6 |
| b | 0.17 | .27 |
| С | 0.08 | 0.2 |
| D | 30 | 0.6 |
| D1 | 2 | 8 |
| Е | 30 |).6 |
| E1 | 2 | 8 |
| е | 0 | .5 |

Dimensions are in millimeters.

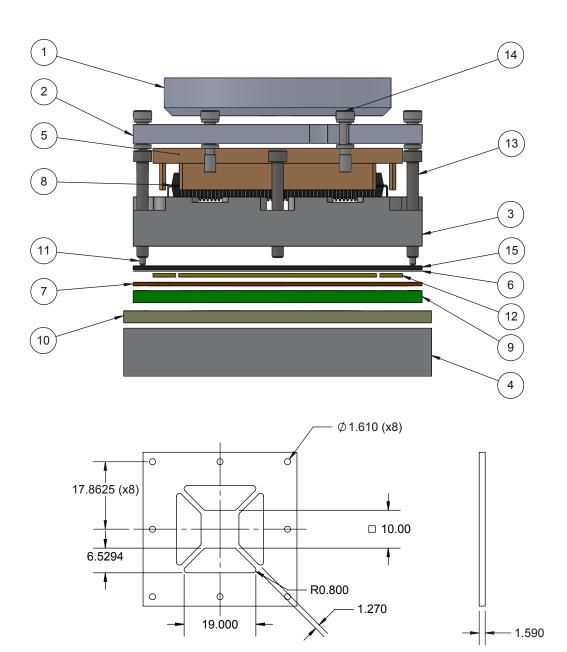
- Interpret dimensions and tolerances per ASME Y14.5M-1994. 1.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z. Datum Z (seating plane) is defined by the spherical crowns of the solder balls. Parallelism measurement shall exclude any effect of mark on top surface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

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

| SG-QFE-7013 Drawing | Finish: N/A Weight: 64.82 | STATUS: Released | SHEET: 3 OF 4 | REV. B |
|--|------------------------------|-----------------------|--------------------|--------------|
| Ironwood Electronics, Inc. Tele: (800) 404-0204 | | ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 3.5:1 |
| www.ironwoodelectronics.com | | FILE: SG-QFE-7013 Dwg | DATE: 06/21/2013 | |



| ITEM NO. | DESCRIPTION | Material |
|-------------|---|--|
| 1 | Compression Screw, M30 | 7075-T6 Aluminum Alloy |
| 2 | Socket Lid 33mm GHz swivel | 7075-T6 Aluminum Alloy |
| 3 | GHz Socket Base 33x33mm IC 6.5m thick | 7075-T6 Aluminum Alloy |
| 4 | Backing Plate | 7075-T6 Aluminum Alloy |
| 5 | Compression Plate QFE 208 26x3.505 extrusion | Ultem 1000 |
| 6 | QFE 208 Lead Guide | Kapton Polyimide/Cirlex |
| 7 | Elastomer Guide QFE 208 | Kapton Polyimide/Cirlex |
| 8 | QFP 208 Test Chip | Material <not specified=""></not> |
| 9 | QFE 208 Test PCB | FR4 High temp |
| 10 | Insulating Plate 33mm IC | High Temp FR4 |
| 11 | Dowel Pin, 1/32" x 3/16", SS | Chrome Stainless Steel |
| 12 | 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, 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 |
| 13 | #0-80 x 0.5, SH Cap Screw | Alloy Steel |
| 14 | #0-80 Shoulder Screw, 0.090" thread length | Stainless Steel (303) |
| 15 | QFE 208 IC Guide | Cirlex |

Description: Socket, Backing Plate 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.

| Rev | Date | Initials | Description |
|-----|----------|----------|-------------------------------------|
| Α | 06/21/13 | MR | Original |
| В | 07/23/14 | DH | Changed IC guide material to Cirlex |
| | | | |
| | | | |

| SG-QFE-7013 Drawing |
|------------------------|
| Ironwood Electronics I |

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 64.82

| STATUS: Released | SHEET: 4 OF 4 | REV. B |
|-----------------------|--------------------|------------|
| ENG: B. Fedde | DRAWN BY: M. Raske | SCALE: 2:1 |
| FILE: SG-QFE-7013 Dwa | DATE: 06/21/2013 | |