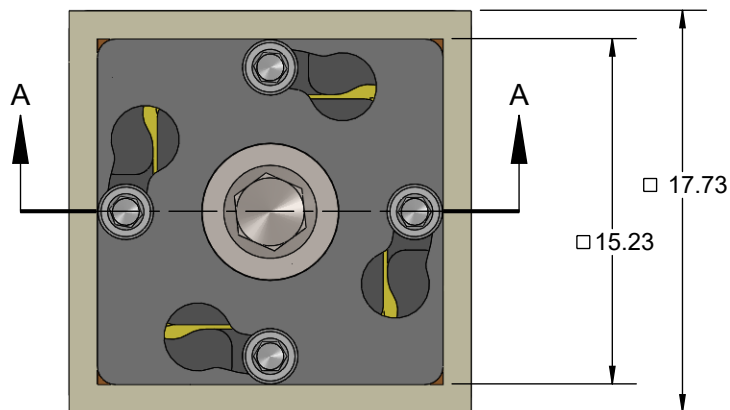


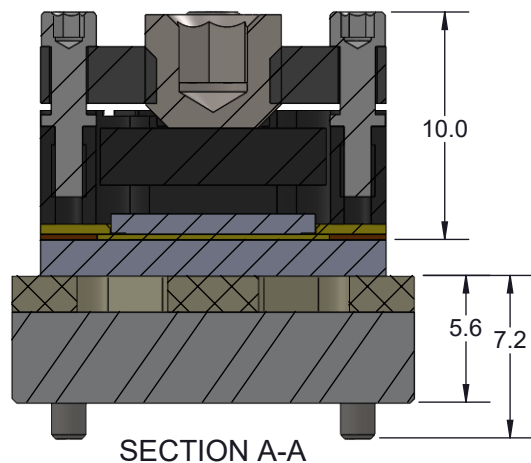
GHz QFN Socket - Direct mount, solderless

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
- Easily removable swivel socket lid

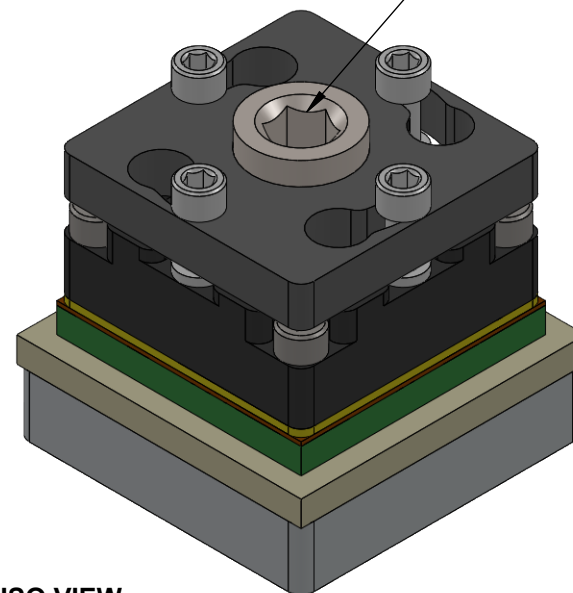


TOP VIEW



SECTION A-A

Required Torque:
17 N-cm [1.5 lbf-in]
Recommended Torque Tool:
TL-TORQUEDRIVER-01




ISO VIEW

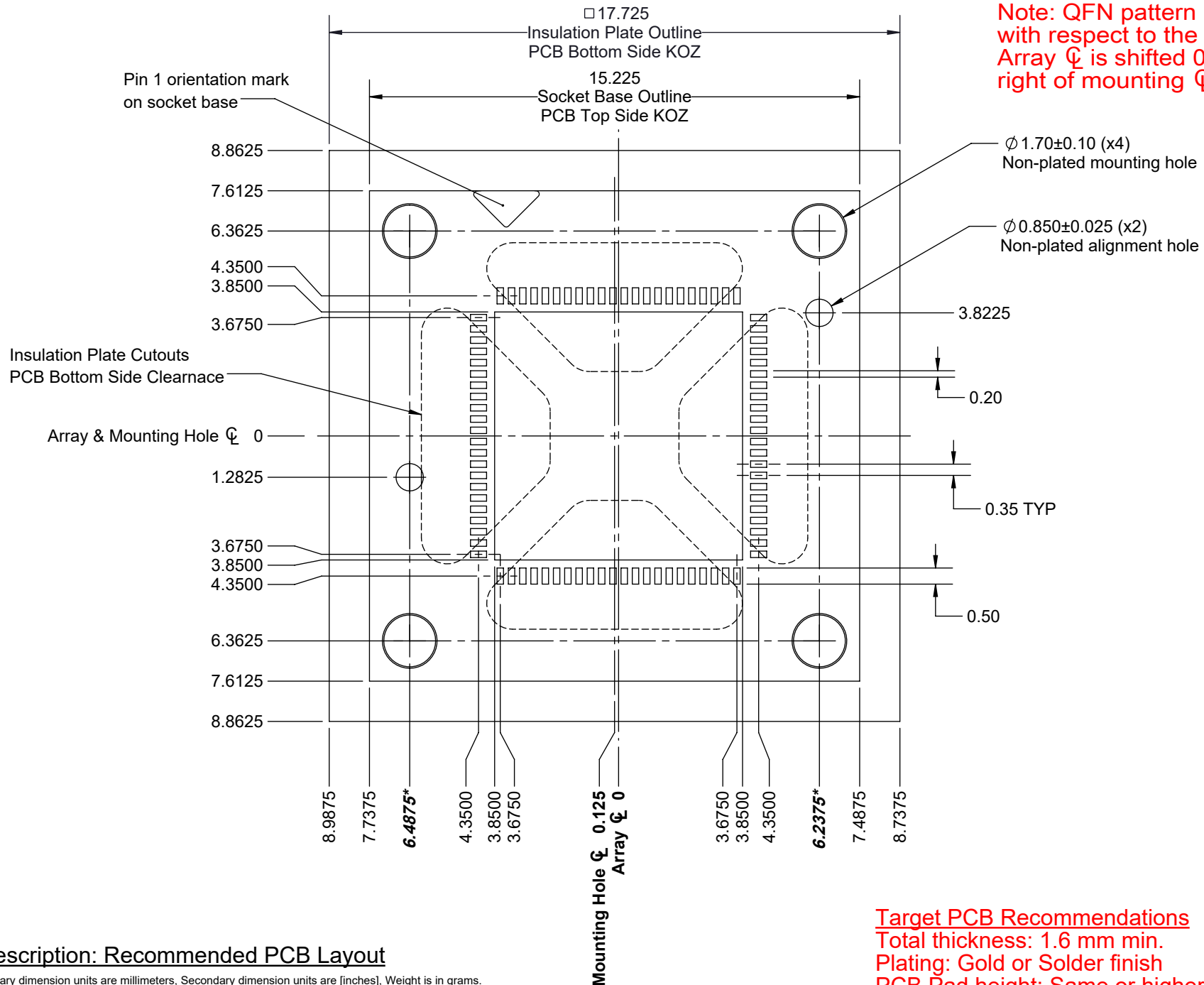
Description: SG25-QFN88, 9x9mm, 0.35mm pitch, Swivel Lid

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [± 0.001 "]. Pitches (from true position) $\pm 0.0762\text{mm}$ [± 0.003 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

	SG25-QFN-2010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 10.06	STATUS: Released ENG: M. Newby FILE: SG25-QFN-2010 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 06/21/2018	REV. A SCALE: 3:1

Note: QFN pattern is not symmetrical with respect to the mounting holes. Array Φ is shifted 0.125mm to the right of mounting Φ



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.

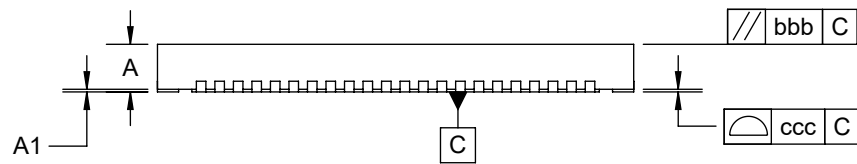
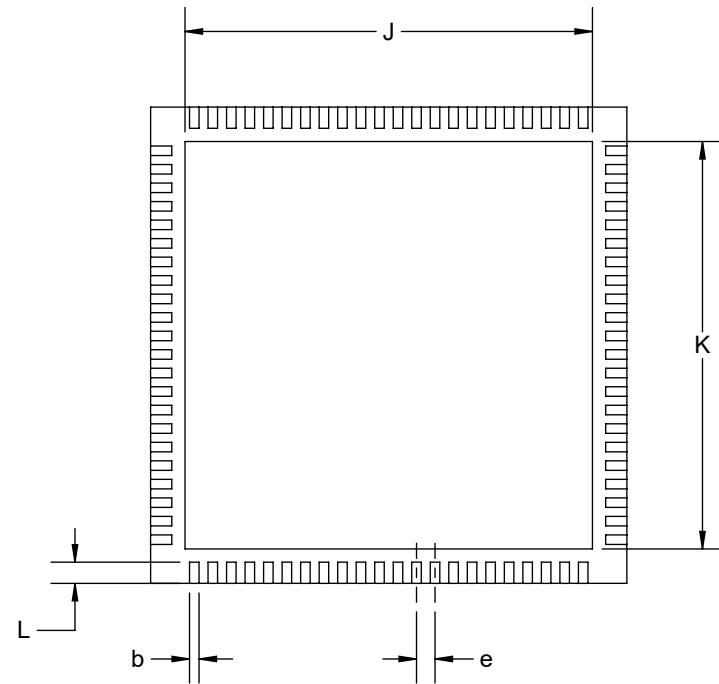
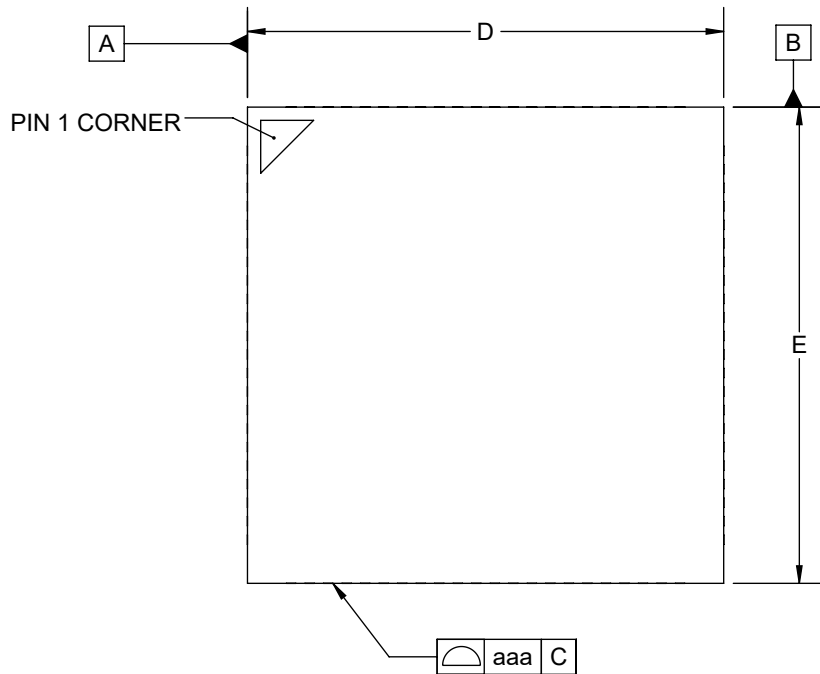
Target PCB Recommendations

Total thickness: 1.6 mm min.

Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

 <p>SG25-QFN-2010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 10.06</p>	<p>STATUS: Released ENG: M. Newby FILE: SG25-QFN-2010 Dwg</p>	<p>SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 06/21/2018</p>	<p>REV. A SCALE: 6:1</p>



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 C.
3. Datum C (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.

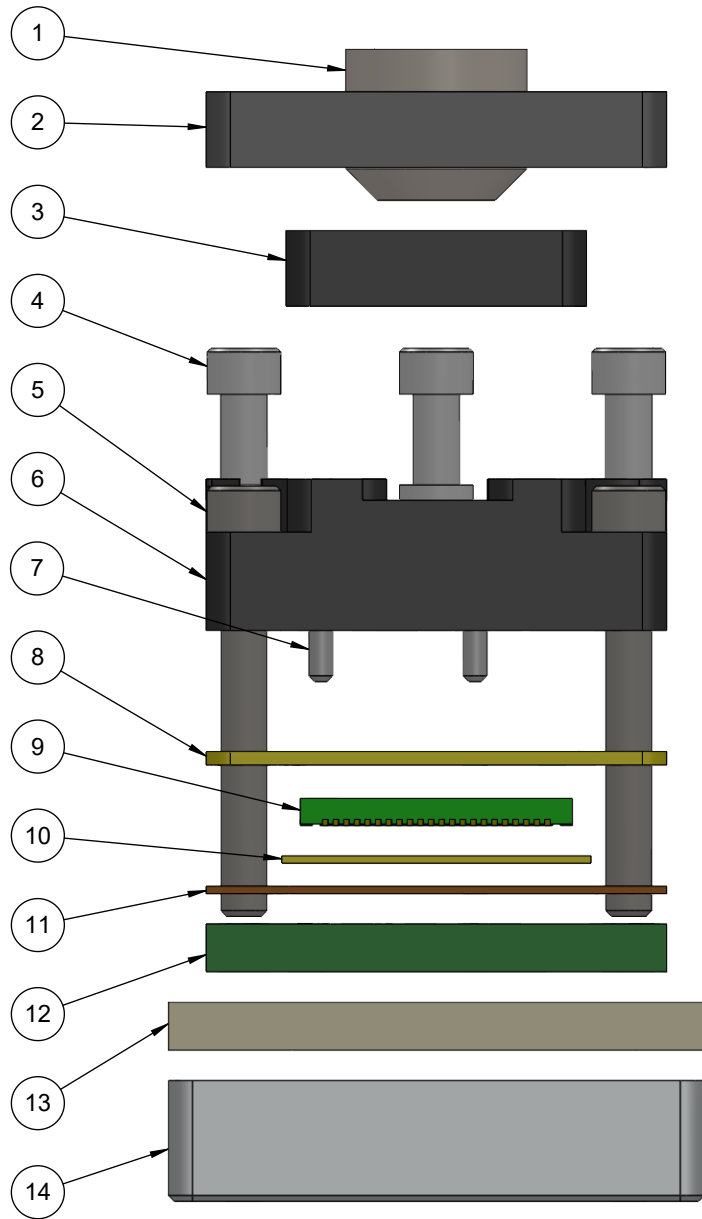
DIM	MIN	MAX
A	0.5	2.0
A1	0	0.2
b	0.13	0.23
D	9.00 BSC	
E	9.00 BSC	
e	0.35 BSC	
J	7.6	7.8
K	7.6	7.8
L	0.35	0.45
aaa	0.1	
bbb	0.1	
ccc	0.8	
eee	0.1	

Description: Compatible Device

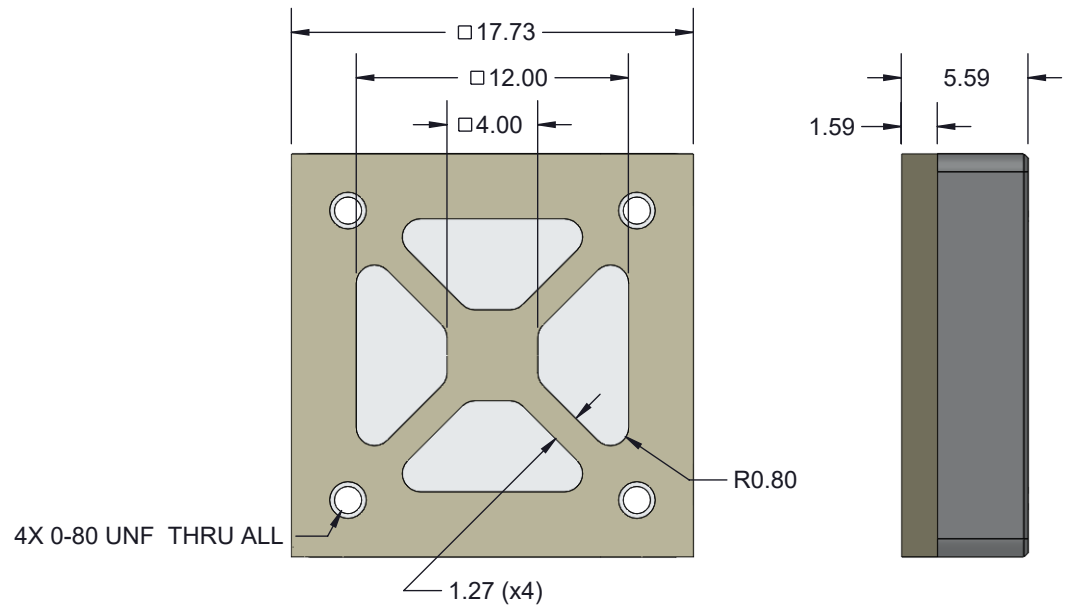
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 SG25-QFN-2010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 10.06	STATUS: Released ENG: M. Newby FILE: SG25-QFN-2010 Dwg	SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 06/21/2018	REV. A SCALE: 7:1



ITEM NO.	DESCRIPTION	Material
1	Compression Screw M6x1	Stainless Steel
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	#0-80 Shoulder Screw	Stainless Steel
5	#0-80 x 0.5 Socket Head Cap Screw	Alloy Steel
6	Socket Base	7075-T6 Aluminum Alloy
7	Alignment Pin 1/32" dia. x 1/8" lng	Stainless Steel
8	IC Guide	High Temp Plastic
9	Test Chip, QFN88	N / A
10	Conductive Angled Elastomer	Gold Plated Brass Filaments in Silicon
11	Elastomer Guide	High Temp Plastic
12	Test PCB, QFN88	N / A
13	Insulation Plate	FR4 / FR5
14	Backing Plate	7075-T6 Aluminum Alloy




BACKING & INSULATION PLATE DETAIL
3:1 SCALE

Description: Socket, Backing Plate 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.

 SG25-QFN-2010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 10.06	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: M. Newby	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SG25-QFN-2010 Dwg	DATE: 06/21/2018	