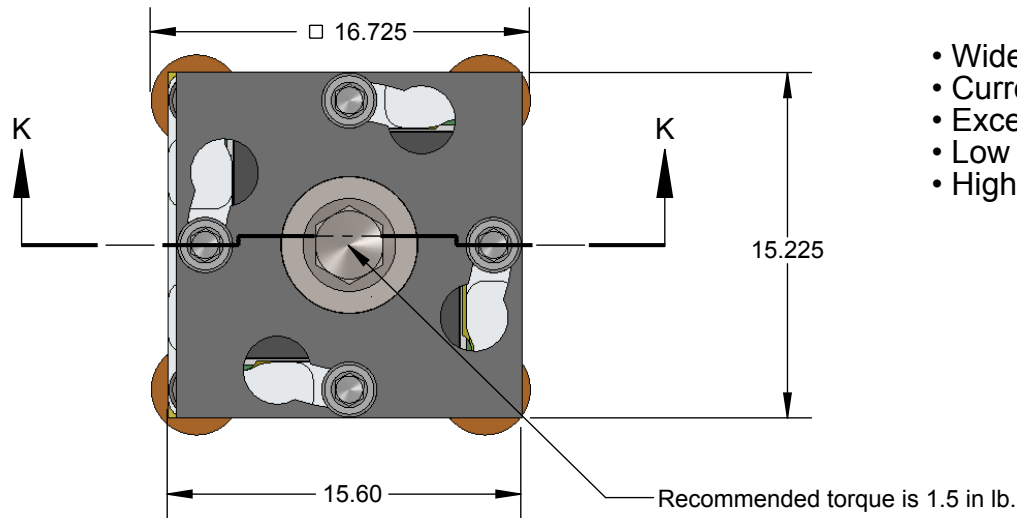


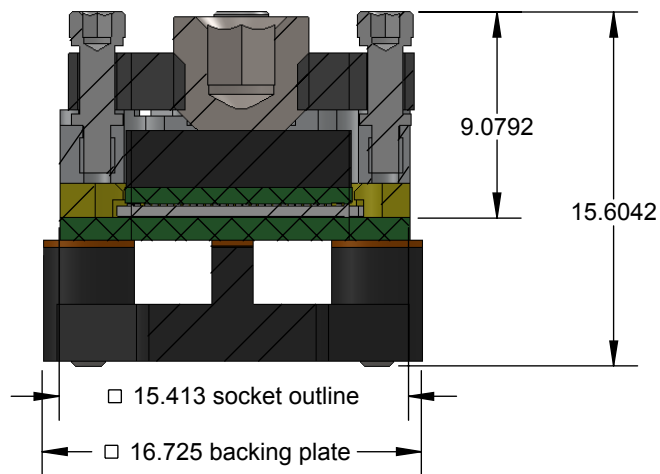
Silver Ball Matrix Socket - Direct mount, solderless

Features

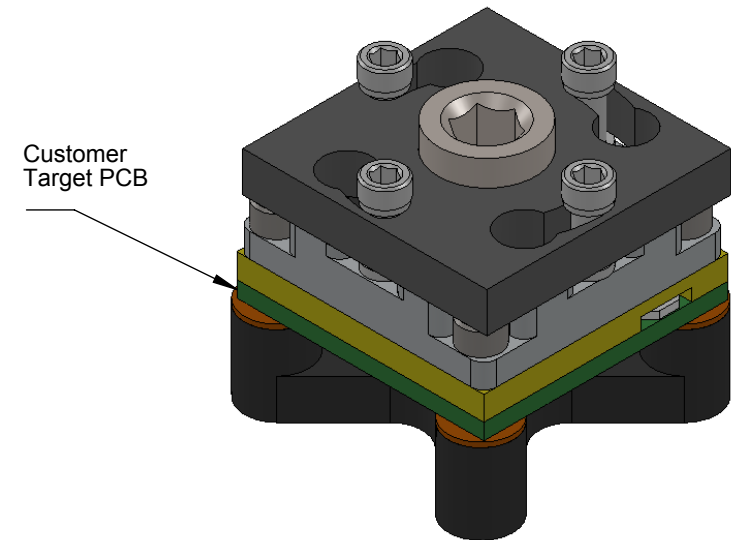
- Wide temperature range (-55C to +150C).
- Current capability is 4A per pin .
- Excellent signal integrity at high frequencies.
- Low and stable contact resistance for reliable production yield.
- Highly compliant to accommodate wide co-planarity variations.



TOP VIEW




SECTION K-K

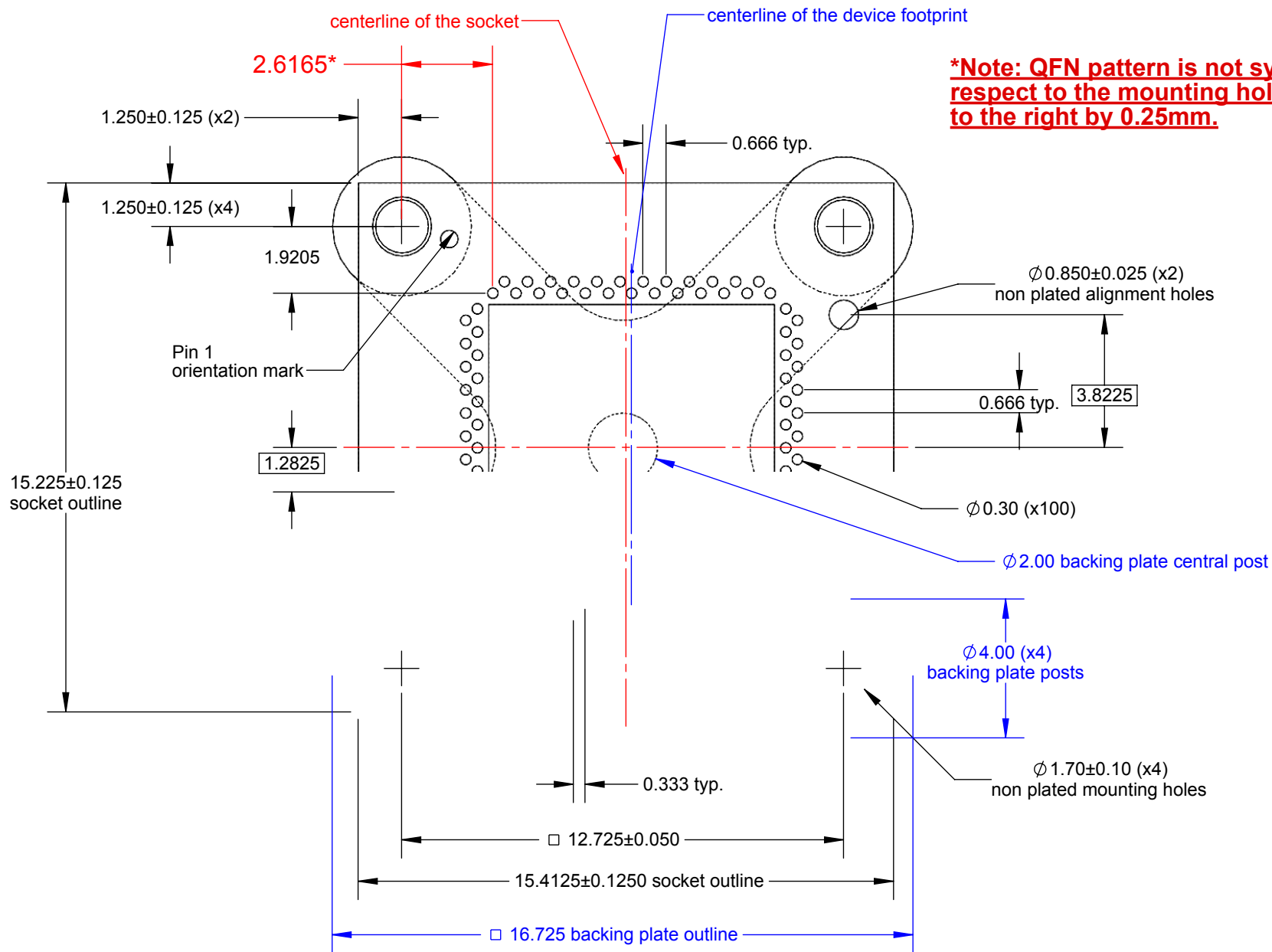


Description: Socket for 10x10mm 0.666mm pitch QFN100

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.

 SM-AQFN-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 6.60	STATUS: Released	SHEET: 1 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:1
		FILE: SM-AQFN-7000 Dwg	DATE: 6/26/13	




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

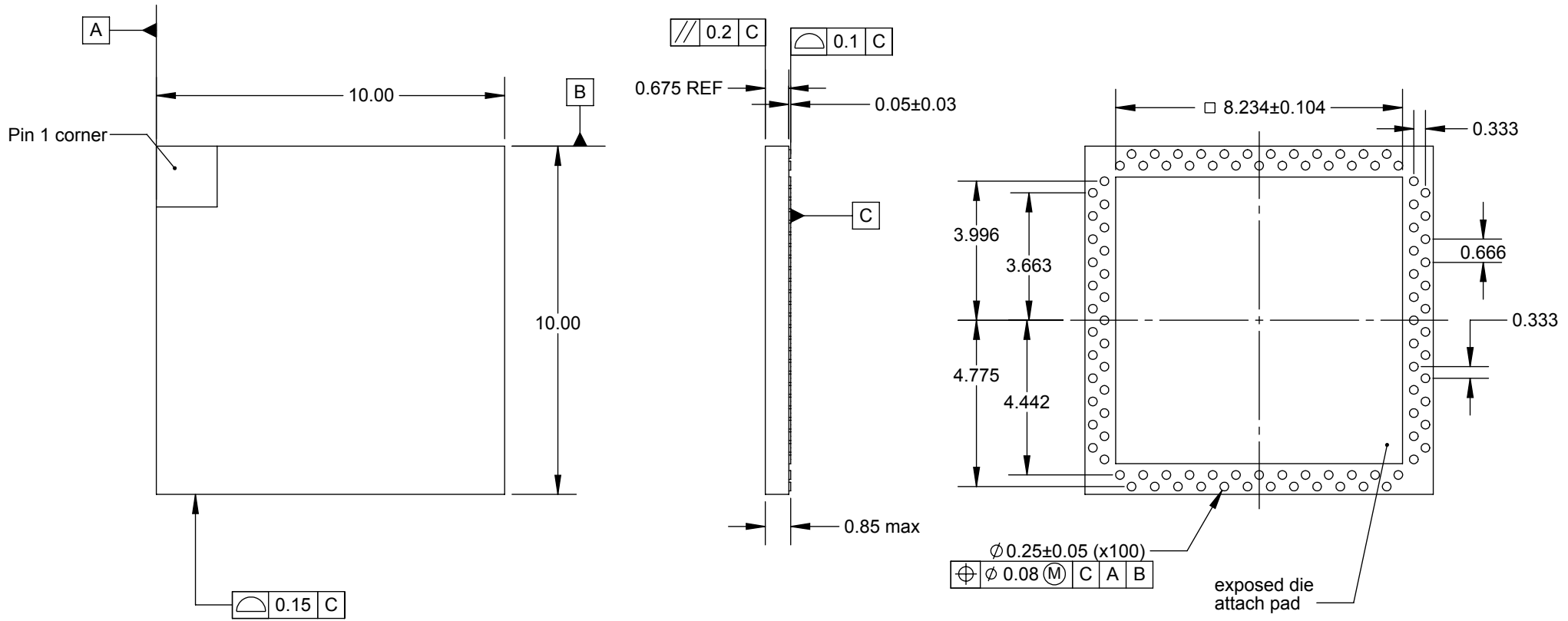
Target PCB Recommendations
 Total thickness: 2.38mm min.
 Plating: Gold or Solder finish
 PCB Pad height: same or higher than solder mask

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.

 SM-AQFN-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 6.60	STATUS: Released ENG: E. Smolentseva FILE: SM-AQFN-7000 Dwg	SHEET: 2 OF 5 DRAWN BY: E. Smolentseva DATE: 6/26/13	REV. B SCALE: 6:1


Package Code : AQFN100A1

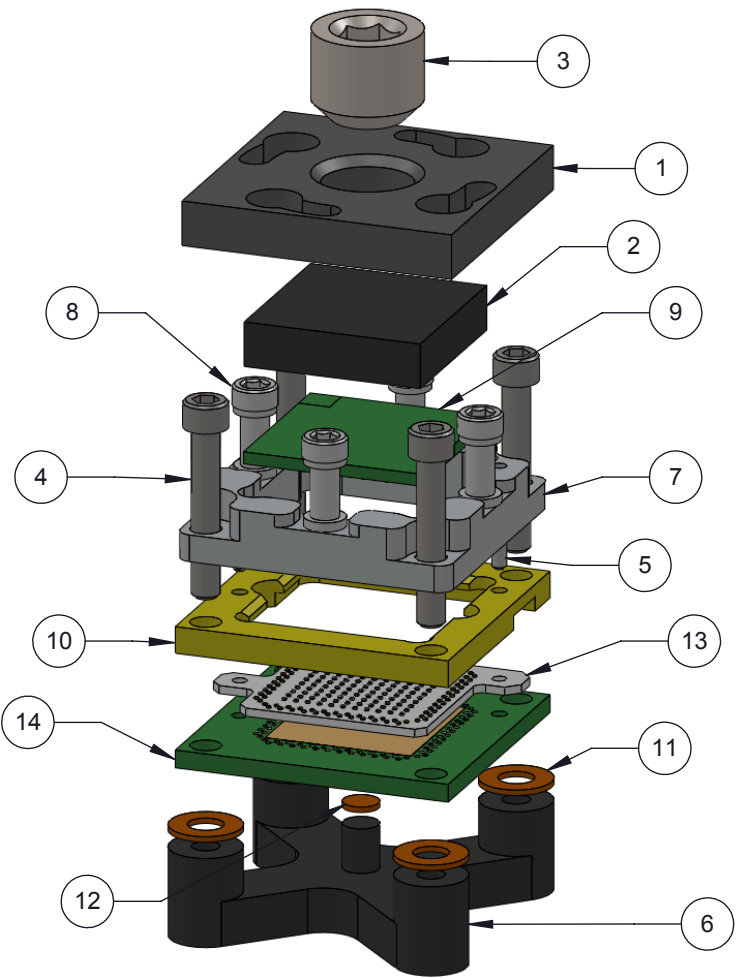


Description: Compatible QFN

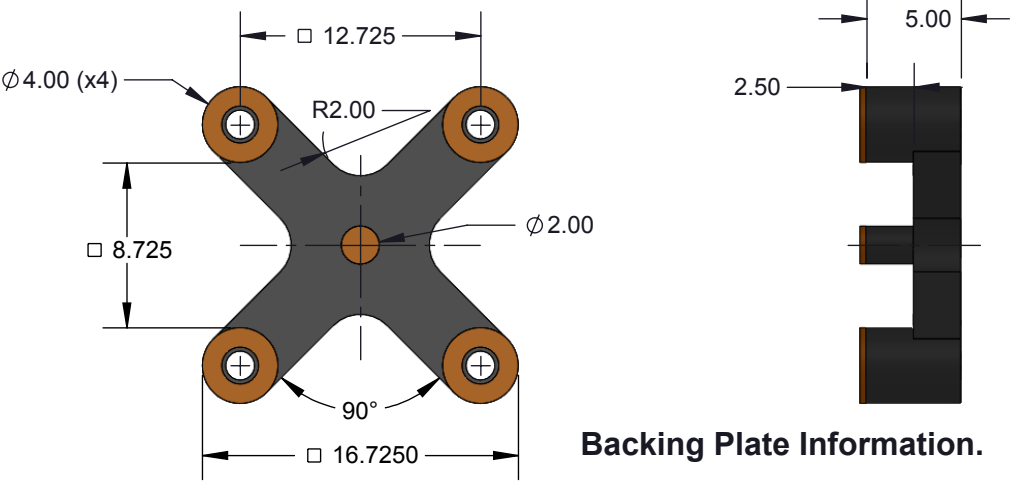
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 SM-AQFN-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 6.60	STATUS: Released	SHEET: 3 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 6:1
		FILE: SM-AQFN-7000 Dwg	DATE: 6/26/13	




ITEM NO.	DESCRIPTION	Material
1	Socket Lid	7075-T6 Aluminum Alloy
2	Compression Plate	7075-T6 Aluminum Alloy
3	Compression Screw M6x1	Stainless Steel (18-8)
4	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
5	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
6	10x10mm 5 post backing plate	7075-T6 Aluminum Alloy
7	Socket Base	7075-T6 Alumium Alloy
8	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
9	Customer's QFN device	FR4 Standard
10	IC guide 10x10mm IC	Torlon 4203
11	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
12	Insulating disk, 2mm OD with 2 mil thk Adesive	Kapton Polyimide/Cirlex
13	SM interposer for 10x10 0.666mm pitch QFN100	Silmat
14	Customer's target PCB	FR4 Standard



Backing Plate Information.

Description: Socket Specification

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.


 SM-AQFN-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 6.60	STATUS: Released	SHEET: 4 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 2.5:1
		FILE: SM-AQFN-7000 Dwg	DATE: 6/26/13	

Rev	Date	Initials	Description
A	06/26/13	ELS	Original
B	09/25/14	DH	Changed IC Guide material to Torlon

Description: Revisions

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.

 SM-AQFN-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 2.5:1
		FILE: SM-AQFN-7000 Dwg	DATE: 6/26/13	