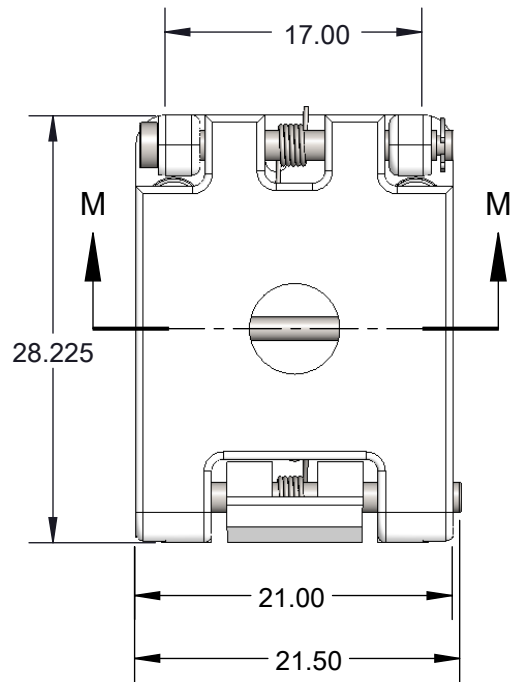
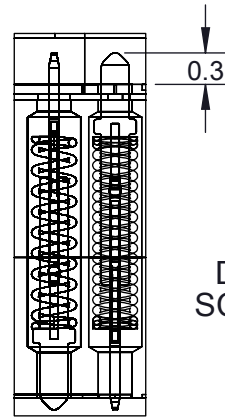


# SBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

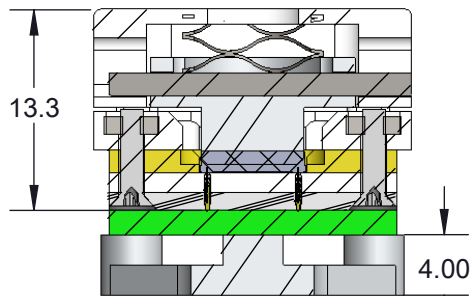


## FEATURES:

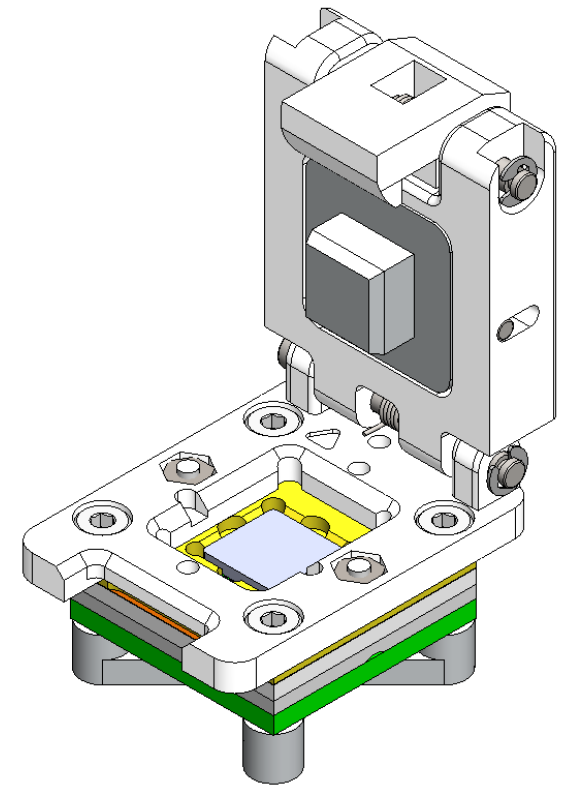
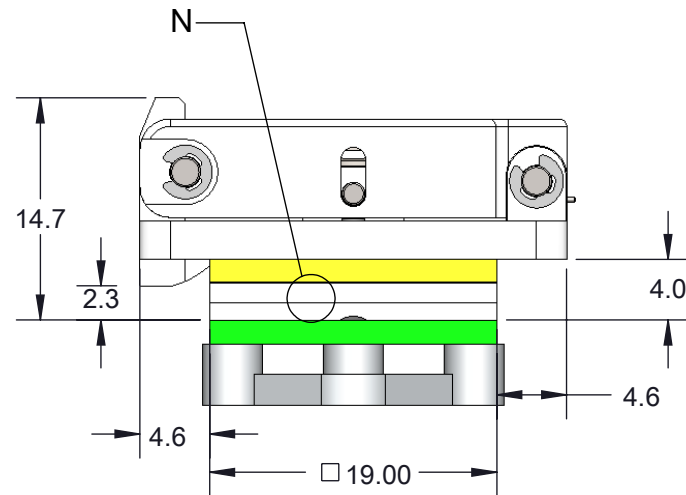
- Wide temperature range (-55C to +180C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost and short lead time



DETAIL N  
SCALE 16 : 1




SECTION M-M

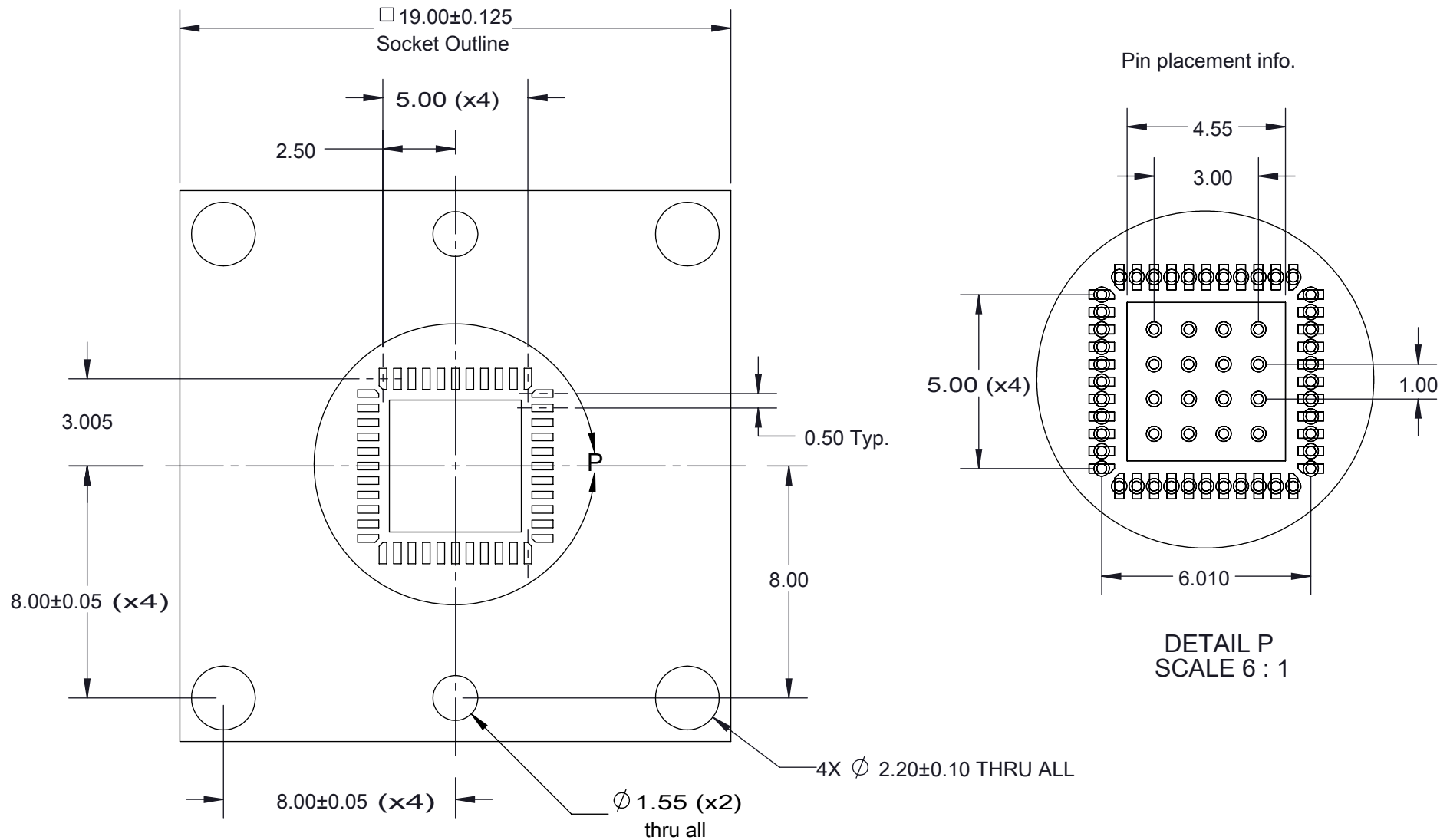


## Description: Socket Assembly

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.


 <b>CBT-QFN-7028 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 11.88	STATUS: Released ENG: V. Panavala FILE: CBT-QFN-7028	SHEET: 1 OF 4 DRAWN BY: V. Panavala DATE: 10/30/2012	REV. C SCALE: 2:1



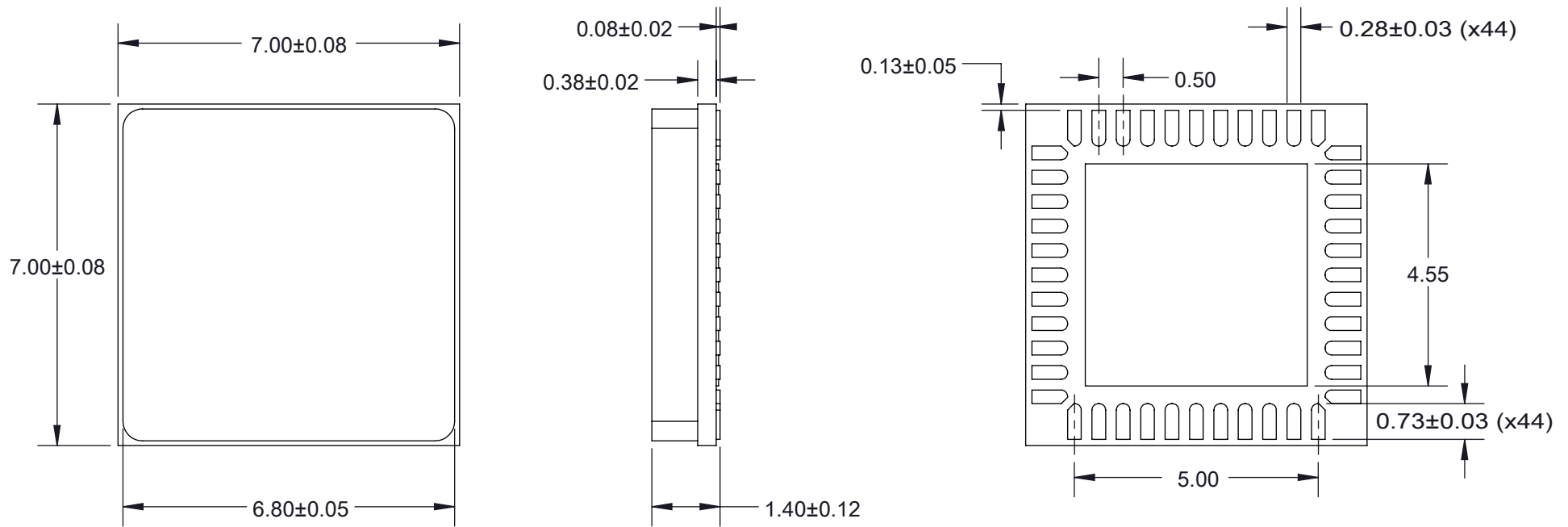
## Description: Recommended PCB Layout

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.

 <b>CBT-QFN-7028 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 11.88	STATUS: Released ENG: V. Panavala FILE: CBT-QFN-7028	SHEET: 2 OF 4 DRAWN BY: V. Panavala DATE: 10/30/2012	REV. C SCALE: 5:1


# Ironwood Package Code : QFN44B

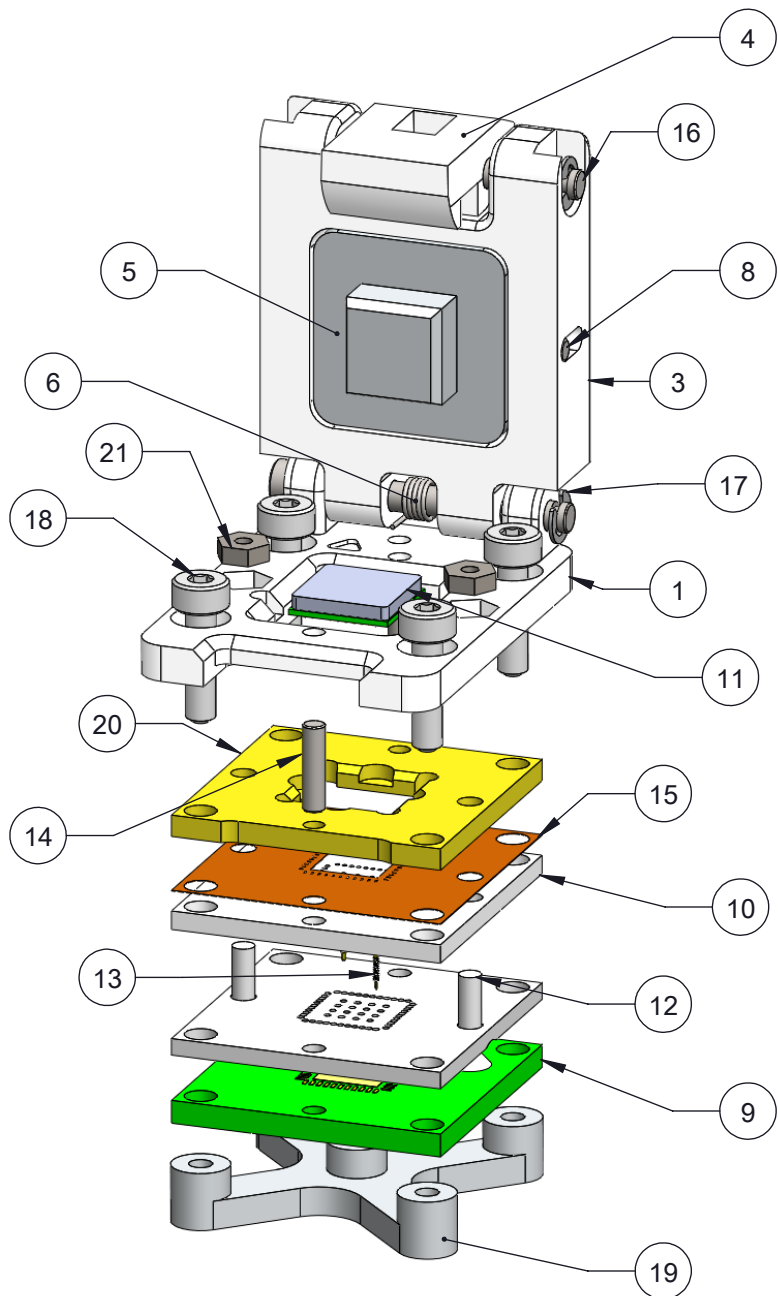


## Description: Compatible QFN

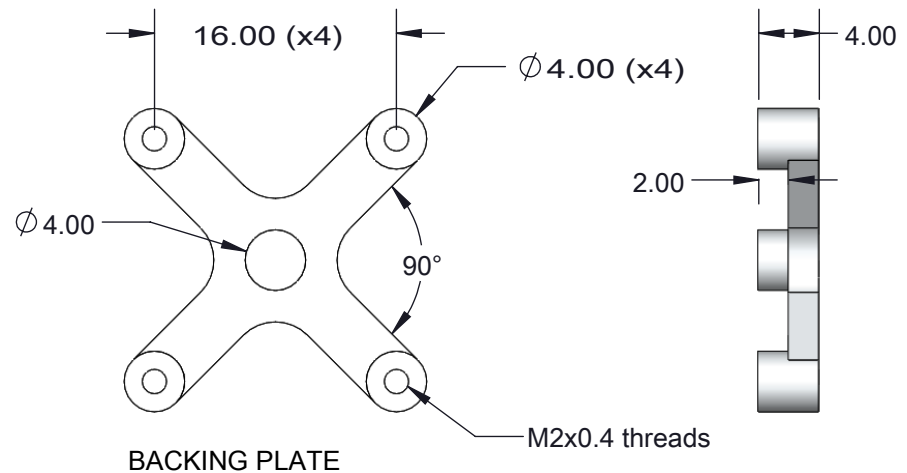
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters  $\pm 0.03$ mm [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001$ "], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13$ mm [ $\pm 0.005$ " unless stated otherwise. Materials and specifications are subject to change without notice.

 <b>CBT-QFN-7028 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 11.88	STATUS: Released	SHEET: 3 OF 4	REV. C
		ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 8:1
		FILE: CBT-QFN-7028	DATE: 10/30/2012	



ITEM NO.	DESCRIPTION	Material
1	Socket Base 12mm snap lid, posts removed	PPS
2	Bottom Pogo Guide 0.5mm pitch QFN44A	PEEK Ceramic filled
3	12mm Plastic Snap Clamshell Socket Lid	PPS/Ultem
4	Clamshell Latch Snap Lid Socket	PPS/Ultem
5	Compression Plate 7x7mm	7075-T6 Aluminium Alloy
6	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
7	Wave Spring 0.375"OD 0.15" In 100lbs/in	Steel Music Wire
8	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
9	PCB QFN44 0.5mm pitch 7mm	Material <not specified>
10	Top Pogo Guide 0.5mm pitch QFN44A	Peek
11	QFN44A IC 7x7mm 0.5mm pitch	FR4
12	#0-80 x .25 LG, Flat Head Machine Screw	Stainless Steel (18-8)
13	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni
14	Dowel Pin, M1.5 X 5mm LG, Hardened Steel	AISI 347 Annealed Stainless Steel (SS)
15	Pin Orientation Guide 0.5mm pitch QFN44	Kapton
16	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
17	Snap ring for 2mm Hinge pin 0.15" OD	
18	Socket Head Cap Screw M2 8mm long	Stainless Steel (316)
19	Backing Plate 5 post	7075-T6 Aluminium Alloy
20	IC guide 7x7mm	Torlon 4203
21	Nut, #0-80 x 3/64", SS	1023 Carbon Steel Sheet (SS)




### Description: Socket Specification

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.

Rev	Date	Initials	Description
A	10/30/12	VP	Original
B	02/19/14	DH	Changed current rating of pin
C	02/19/15	DH	Changed IC Guide Material from Ultem to Torlon

<b>CBT-QFN-7028 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 11.88	STATUS: Released ENG: V. Panavala FILE: CBT-QFN-7028	SHEET: 4 OF 4 DRAWN BY: V. Panavala DATE: 10/30/2012	REV. C SCALE: 2:1
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