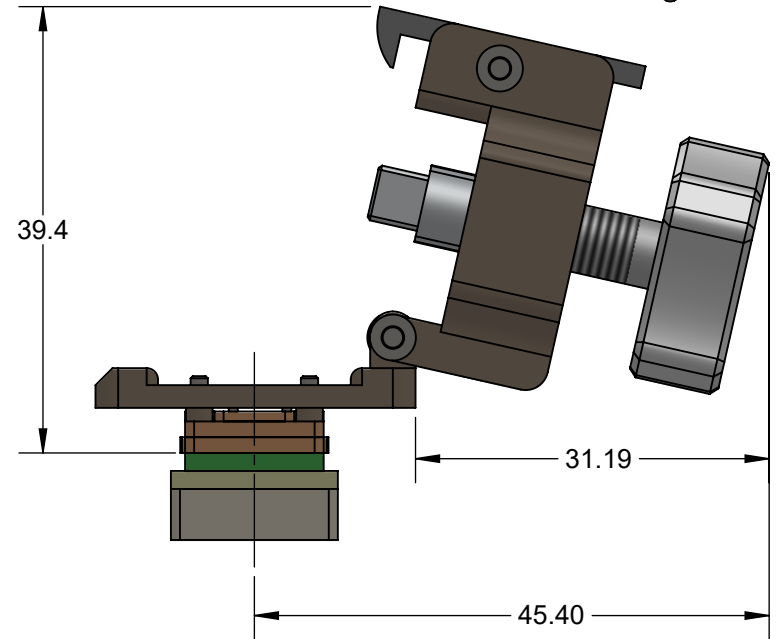
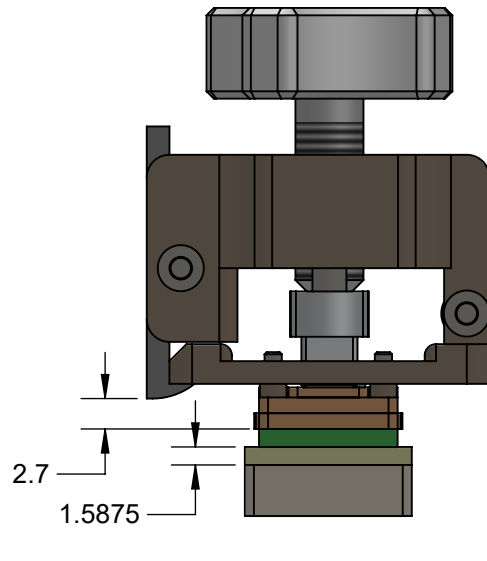
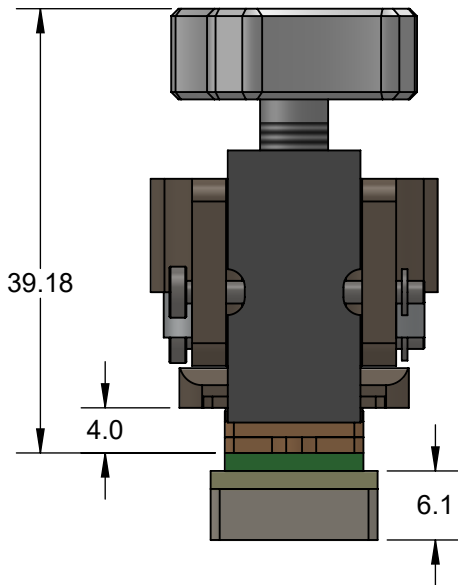
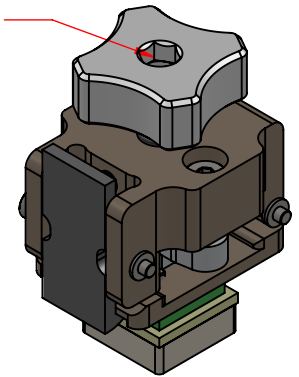


**PIN DETAIL  
SCALE 16:1**

**FEATURES:**

- Wide temperature range (-55C to +180C )
- High current capability (up to 1A 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
- Automated probe manufacturing enables low cost and short lead time


**TORQUE UNTIL FLOATING GUIDE CONTACTS MIDDLE GUIDE  
(APPROXIMATELY 1.3 IN-LBF / 14.7 N-CM)  
RELEASE TORQUE WHEN NOT IN USE  
AND BEFORE OPENING LID**



**Description: CBT-BGA81 3.4218mm 9x9 0.35**

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.

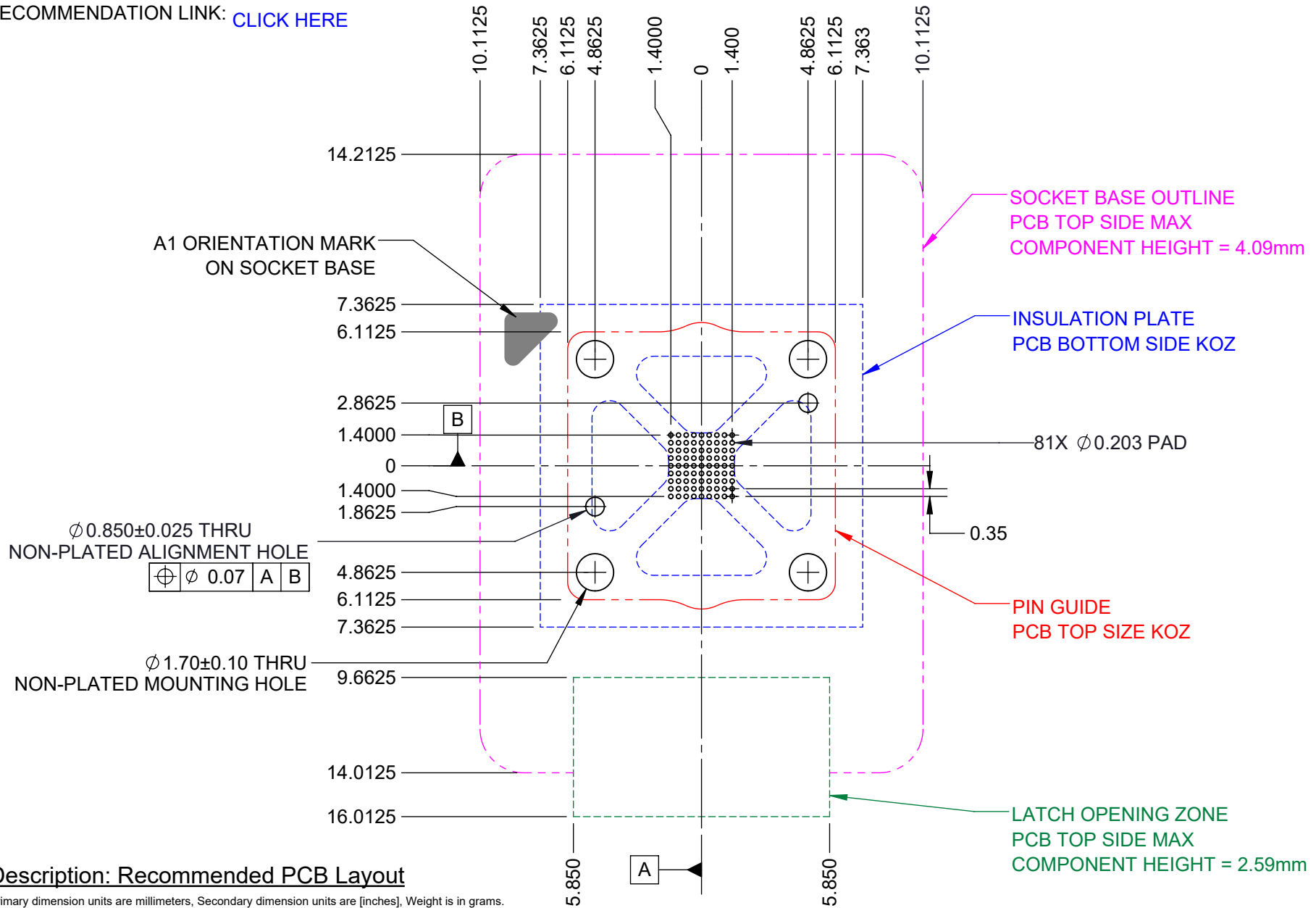
 <p>©2021 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p><b>C20859 Drawing</b></p>	<p>Material: N/A Finish: N/A Weight: 38.96</p>	<p>STATUS: Released ENG: E. Smolentseva FILE: C20859 Dwg</p>	<p>SHEET: 1 OF 4 DRAWN BY: E. Smolentseva DATE: 06/14/2021</p>	<p>REV. A SCALE: 3:2</p>

**TARGET PCB RECOMMENDATIONS**

TOTAL THICKNESS: 1.50-2.50MM


PLATING: GOLD OR SOLDER FINISH

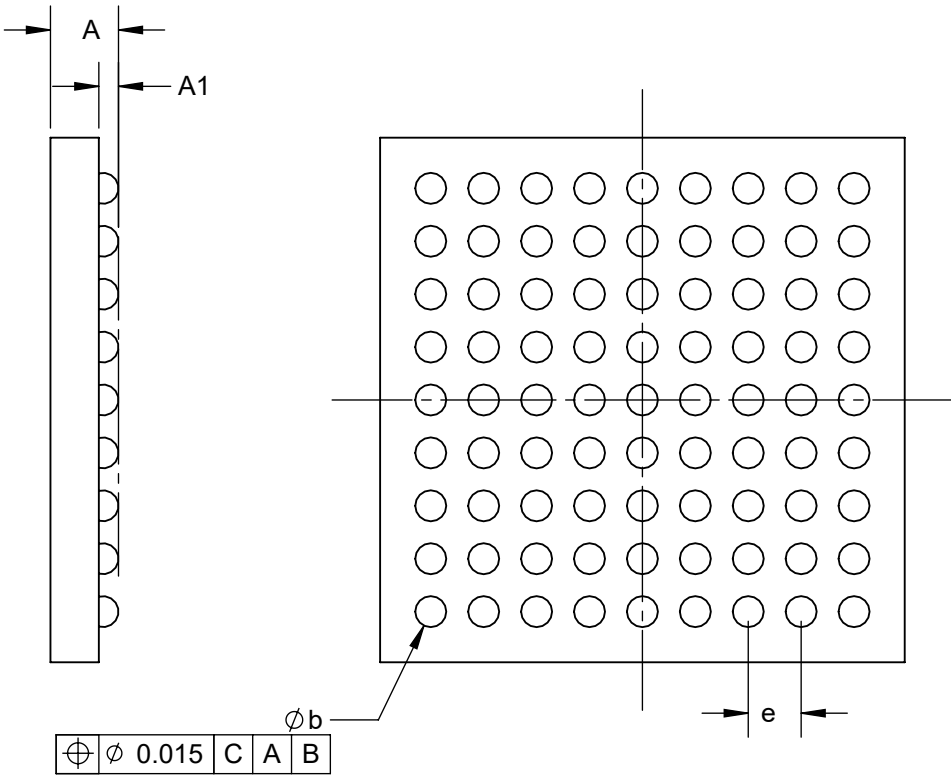
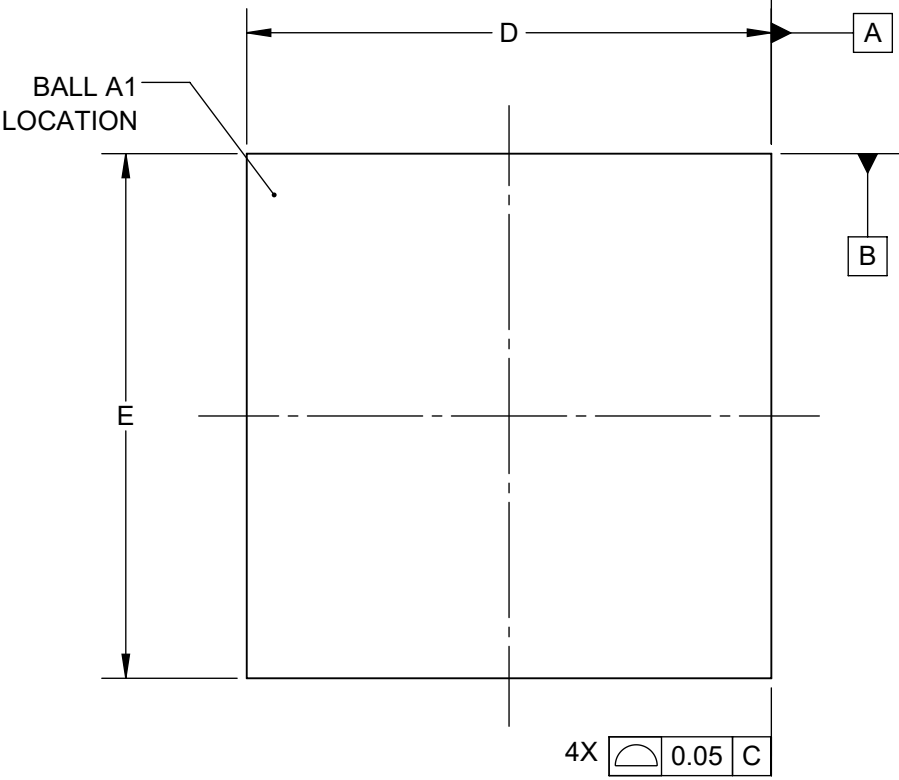
RECOMMENDATION LINK: [CLICK HERE](#)



**Description: Recommended PCB Layout**

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.  
 Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.0254\text{mm}$  [ $\pm 0.001$ "],  
 substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.127\text{mm}$  [ $\pm 0.005$ "]  
 unless stated otherwise. Materials and specifications are subject to change without notice.


 ©2021 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	<b>C20859 Drawing</b>	Material: N/A Finish: N/A Weight: 38.96	STATUS: Released	SHEET: 2 OF 4	REV. A
			ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 4:1
			FILE: C20859 Dwg	DATE: 06/14/2021	

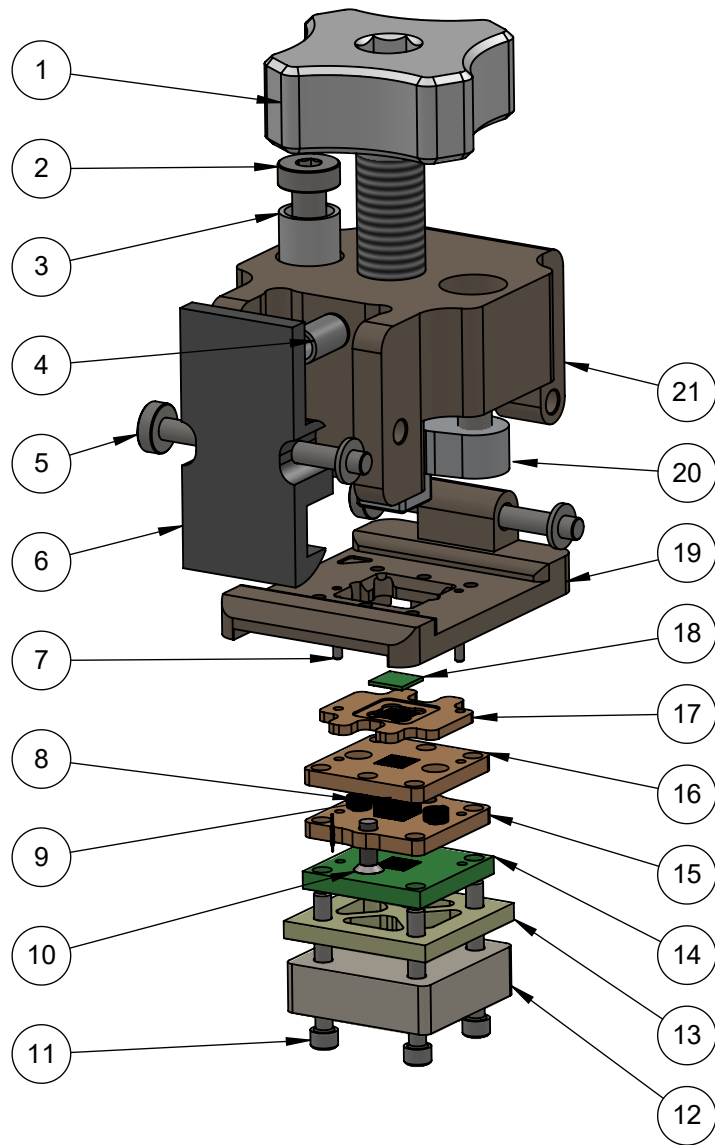


DIM	MIN	MAX
A	-	0.50
A1	0.10	0.16
b	0.185	0.225
D	3.47±0.01	
E	3.47±0.01	
e	0.35 BSC	
ARRAY	9 x 9	
BALL COUNT		81

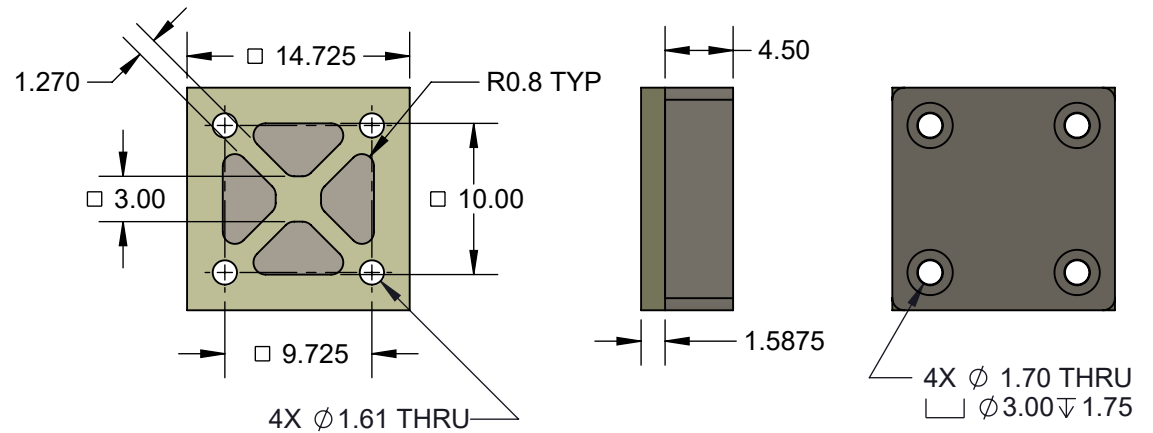
**Description: Compatible Device**

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.  
 Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0254mm [±0.001"],  
 substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"]  
 unless stated otherwise. Materials and specifications are subject to change without notice.

 ©2021 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	<b>C20859 Drawing</b>	Material: N/A Finish: N/A Weight: 38.96	STATUS: Released	SHEET: 3 OF 4	REV. A
			ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 20:1
			FILE: C20859 Dwg	DATE: 06/14/2021	




ITEM NO.	DESCRIPTION	MATERIAL
1	Compression screw	Aluminum
2	Lid screw	Steel
3	Lid spring	Steel
4	Latch spring	Steel
5	Hinge and latch pin	Steel
6	Latch	Aluminum
7	Alignment pin	Steel
8	Floating guide spring	Steel
9	Spring pin	Au over Ni plated
10	Pin guide spring	High temp plastic
11	Mounting screw	Steel
12	Backing plate	Aluminum
13	Insulation Plate	High temp plastic
14	Target PCB	N/A
15	Bottom guide	High temp plastic
16	Middle guide	High temp plastic
17	Floating guide	High temp plastic
18	Compatible device	N/A
19	Base	Aluminum
20	Compression plate	Aluminum
21	Lid	Aluminum



**BACKING PLATE DETAIL**

**Description: Socket Assy, Insulation Detail**

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.  
 Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.0254\text{mm}$  [ $\pm 0.001"$ ],  
 substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.127\text{mm}$  [ $\pm 0.005"$ ]  
 unless stated otherwise. Materials and specifications are subject to change without notice.

 <p><b>C20859 Drawing</b>          ©2021 Ironwood Electronics, Inc.          Tele: (800) 404-0204          www.ironwoodelectronics.com</p>	<p>Material: N/A          Finish: N/A          Weight: 38.96</p>	STATUS: Released	SHEET: 4 OF 4	REV. A
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:2
		FILE: C20859 Dwg	DATE: 06/14/2021	