

Dimensional Inspection Report (Final Student Version - Inches)

Project: Default Project
Part Name: Part 1
Drawn by: Tylor Good
Date: 11/6/2025
Scale: 5:3
Inspector: _____
Student: _____

1. Overall Dimensions

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
1	Overall Length	3.200	± 0.0004		
2	Overall Height	1.600	± 0.0004		
3	Step Height	4.15	—		
4	Step Width	1.260	—		
5	Width (Depth)	1.875	± 0.0002		

2. Hole Features

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
6	Ø Large Hole	Ø0.736	± 0.0002		
7	Large Hole Position (X from left)	1.600	± 0.002		
8	Large Hole Position (Y from bottom)	0.800	± 0.002		
9	Ø Small Hole #1	Ø0.2195	± 0.0004		
9a	Small Hole #1 Depth	Thru	—		
10	Small Hole #1 Position (X from left)	0.500	± 0.002		
11	Small Hole #1 Position (Y from bottom)	0.500	± 0.002		
12	Threaded Hole	M20×1.5 (6H Thru)			
13	Ø Small Hole #2	Ø0.2195	± 0.0004		
13a	Small Hole #2 Depth	Thru	—		
14	Small Hole #2 Position (X from left)	2.195	—		
15	Small Hole #2 Position (Y from bottom)	0.500	—		

3. Chamfers and Angles

Feature	Description	Nominal	Tolerance	Measured	Pass/Fail
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16	Chamfer Angle	45°	±1°		
17	Chamfer Width	0.033	±0.002		

4. Surface and Thread Checks

Feature	Description	Requirement	Actual	Pass/Fail
18	Thread M20×1.5 pitch accuracy	Go/No-Go gauge		
19	Surface finish	Per class requirement		
20	Visual inspection	No burrs / defects		

5. Notes & Comments

6. Summary

Criteria	Result
Total Features Checked	20
Pass	
Fail	
Inspector Signature	_____
Date	_____