

Dimensional Inspection Report (Final Student Version - Inches)

Project:	Default Project	Date:	11/6/2025
Part Name:	Part 1	Scale:	1.5
Drawn by:	Tylor Good	Inspector:	
Student:			

1. Overall Dimensions

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
1	Overall Length	3.200	$\pm .01$		
2	Overall Height	1.600	$\pm .01$		
3	Step Height	.415			
4	Step Width	.260			
5	Width (Depth)	.875	$\pm .01$		

2. Hole Features

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
6	\varnothing Large Hole	$\varnothing 0.736$	$\pm .005$		
7	Large Hole Position (X from left)	1.600	$\pm .002$		
8	Large Hole Position (Y from bottom)	.800	$\pm .002$		
9	\varnothing Small Hole #1	$\varnothing 0.2195$	$\pm .0004$		
9a	Small Hole #1 Depth	.500			
10	Small Hole #1 Position (X from left)	.500	$\pm .002$		
11	Small Hole #1 Position (Y from bottom)	.500	$\pm .002$		
12	Threaded Hole	M20x1.5 (6H THru)			
13	\varnothing Small Hole #2	$\varnothing 0.2195$	$\pm .0004$		
13a	Small Hole #2 Depth	.500			
14	Small Hole #2 Position (X from left)	2.700	$\pm .002$		
15	Small Hole #2 Position (Y from bottom)	.500	$\pm .002$		

3. Chamfers and Angles

Feature	Description	Nominal	Tolerance	Measured	Pass/Fail

16	Chamfer Angle	45°	±1°		
17	Chamfer Width	.033	±.002		

4. Surface and Thread Checks

Feature	Description	Requirement	Actual	Pass/Fail
18	Thread M20x1.5 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	