

# 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	$\pm 0.0004$		
2	Overall Height	1.600	$\pm 0.0004$		
3	Step Height	4.15	—		
4	Step Width	1.260	—		
5	Width (Depth)	1.875	$\pm 0.0002$		

## 2. Hole Features

Feature	Description	Nominal (in)	Tolerance	Measured	Pass/Fail
6	$\emptyset$ Large Hole	$\emptyset 0.736$	$\pm 0.0002$		
7	Large Hole Position (X from left)	1.600	$\pm 0.002$		
8	Large Hole Position (Y from bottom)	0.800	$\pm 0.002$		
9	$\emptyset$ Small Hole #1	$\emptyset 0.2195$	$\pm 0.0004$		
9a	Small Hole #1 Depth	Thru	—		
10	Small Hole #1 Position (X from left)	0.500	$\pm 0.002$		
11	Small Hole #1 Position (Y from bottom)	0.500	$\pm 0.002$		
12	Threaded Hole	M20x1.5 (6H Thru)			
13	$\emptyset$ Small Hole #2	$\emptyset 0.2195$	$\pm 0.0004$		
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

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 M20x1.5 pitch accuracy	Go/No-Go gauge		
19	Surface finish	Per class requirement		
20	Visual inspection	No burrs / defects		

#### **5. Notes & Comments**

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#### **6. Summary**

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