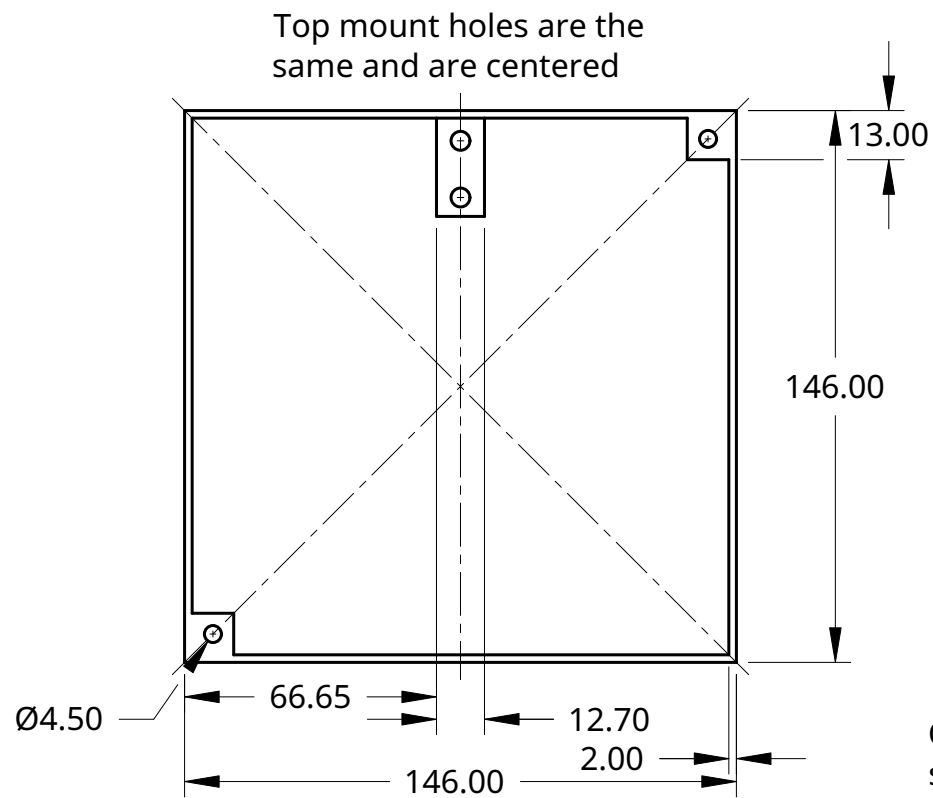
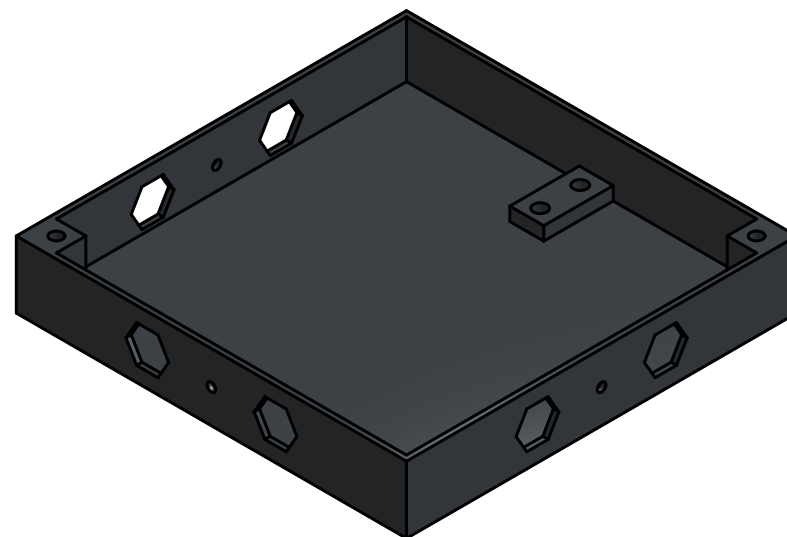


Item	Name	Quantity	Material	Description
1	Case	1	PETG	Primary structural base. Connects to cover, load cell, and other modules. Houses electronics. FFF/FDM printed.
2	Bar Load Cell	1	Aluminum	Measures deflection to determine force. Standard Part.
3	Case Cover	1	PETG	Provides protection for electronics inside the case. FFF/FDM printed.
4	Pressure Plate	1	PETG	Supports the items on the load cell. FFF/FDM printed.
5	Hex socket head cap screw M4x0.70 x 10	2	Stainless Steel	Hex socket head cap screw M4x0.70 x 10 Stainless Steel
6	Hex socket head cap screw M4x0.70 x 20	2	Stainless Steel	Hex socket head cap screw M4x0.7 x 20 Stainless Steel
7	Hex socket head cap screw M3x0.50 x 6	2	Stainless Steel	Hex socket head cap screw M3x0.50 x 6 Stainless Steel
The Ohio State University First Year Engineering		Dwg. Title: Exploded Smart Module Assembly		Scale: 1:3
		Drawn By: Aditya Gupta		Units: ISO

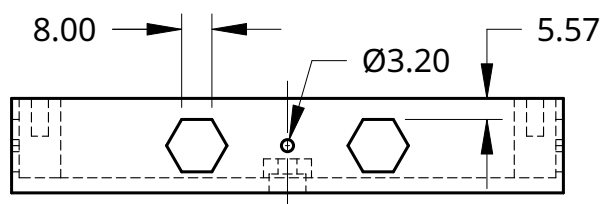


Wall thickness is uniform



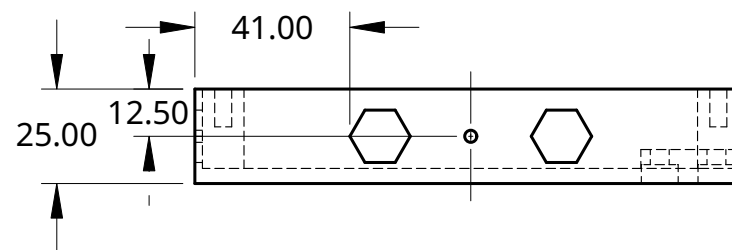
Corner mounts are symmetric across both diagonals

Symmetric left to right except for corner mounts

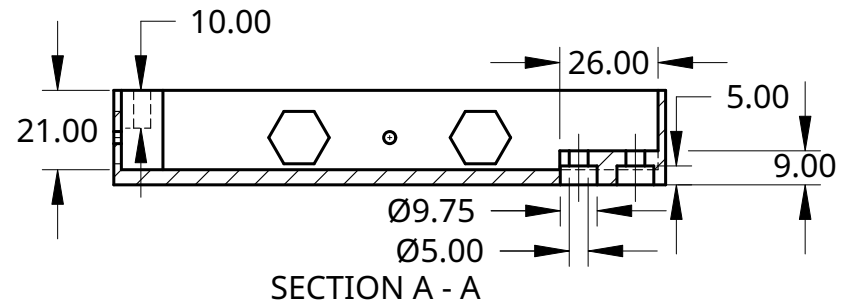
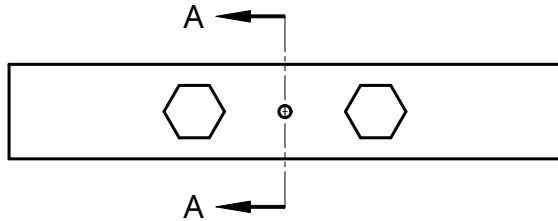
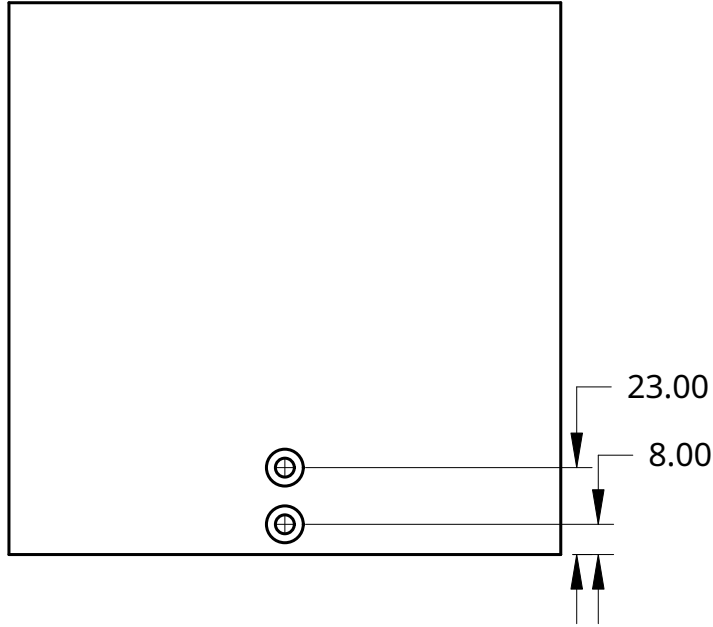


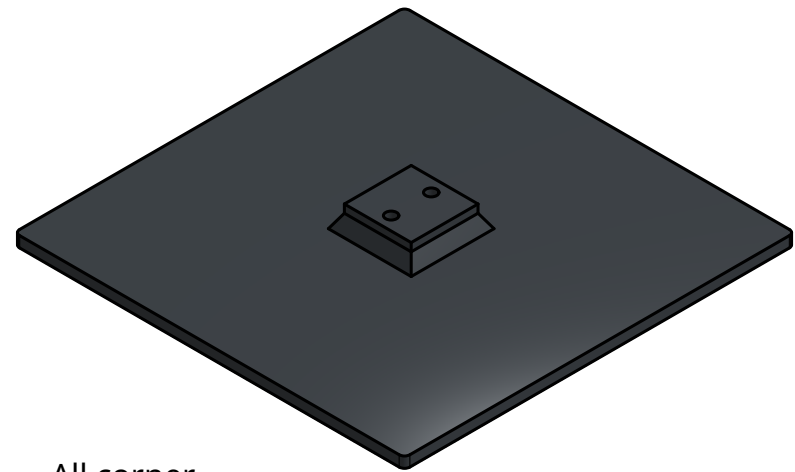
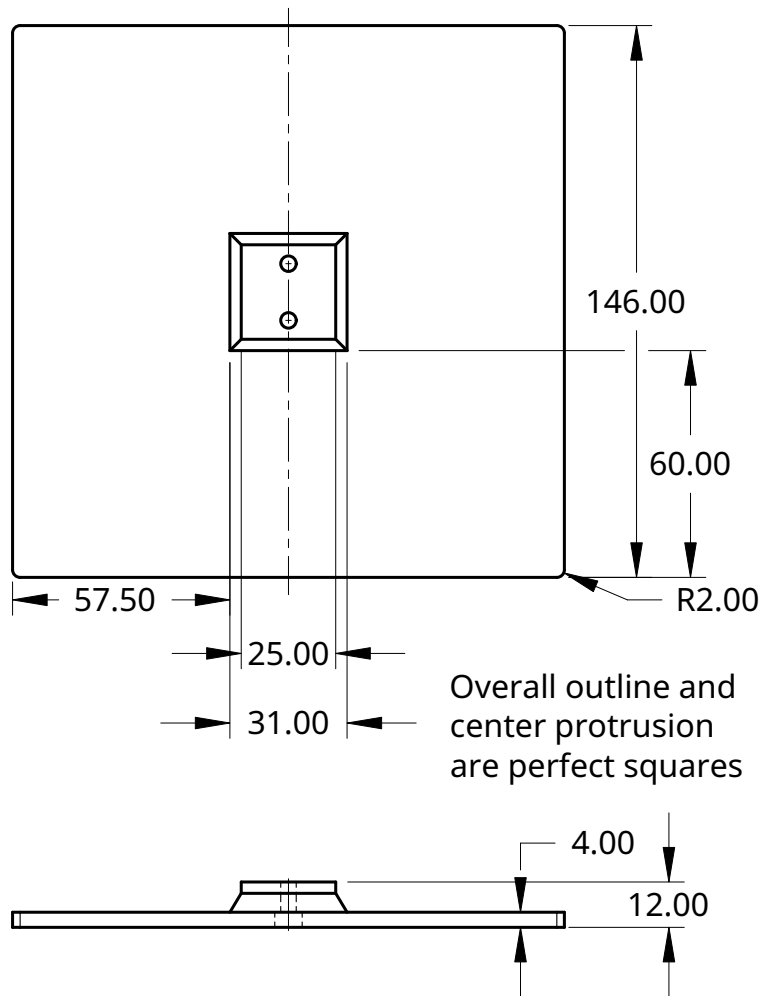
Hexagons are regular

Wall face is symmetric left to right



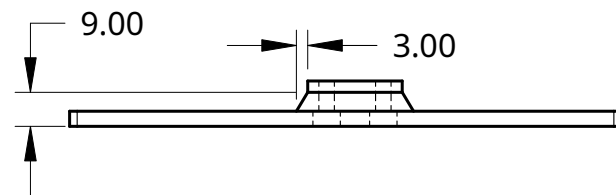
Wall face is the same on 3 sides

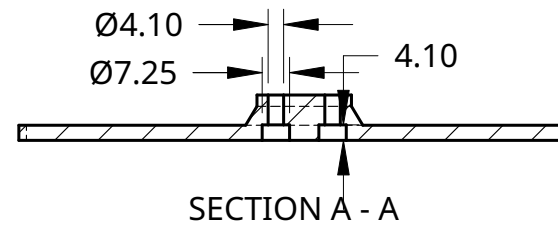
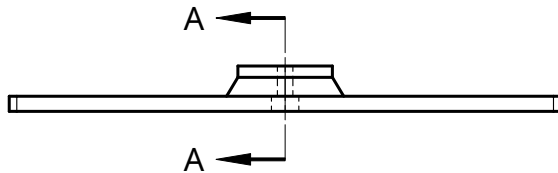
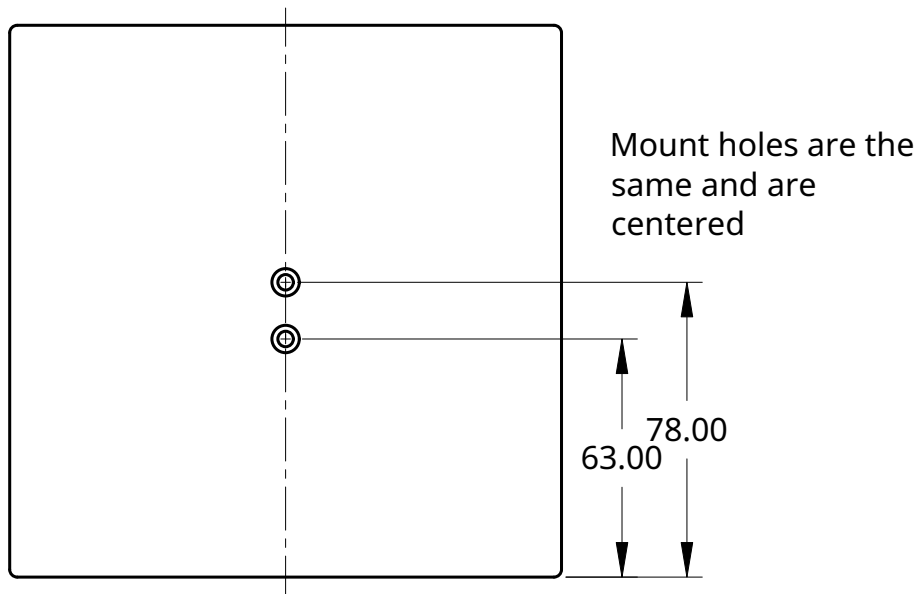


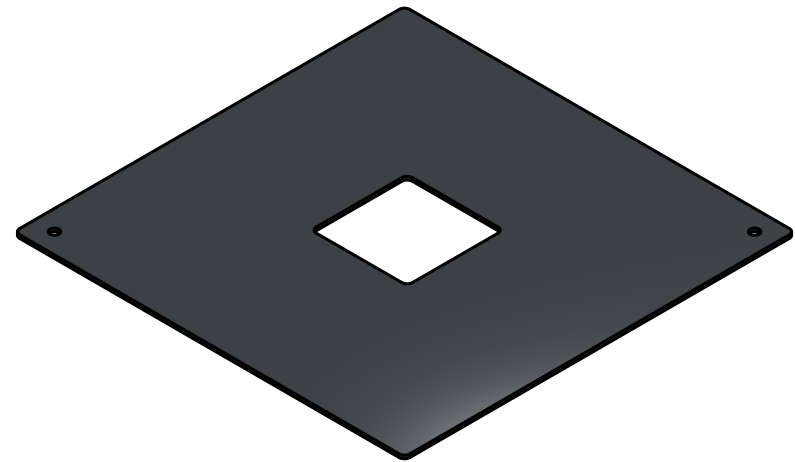
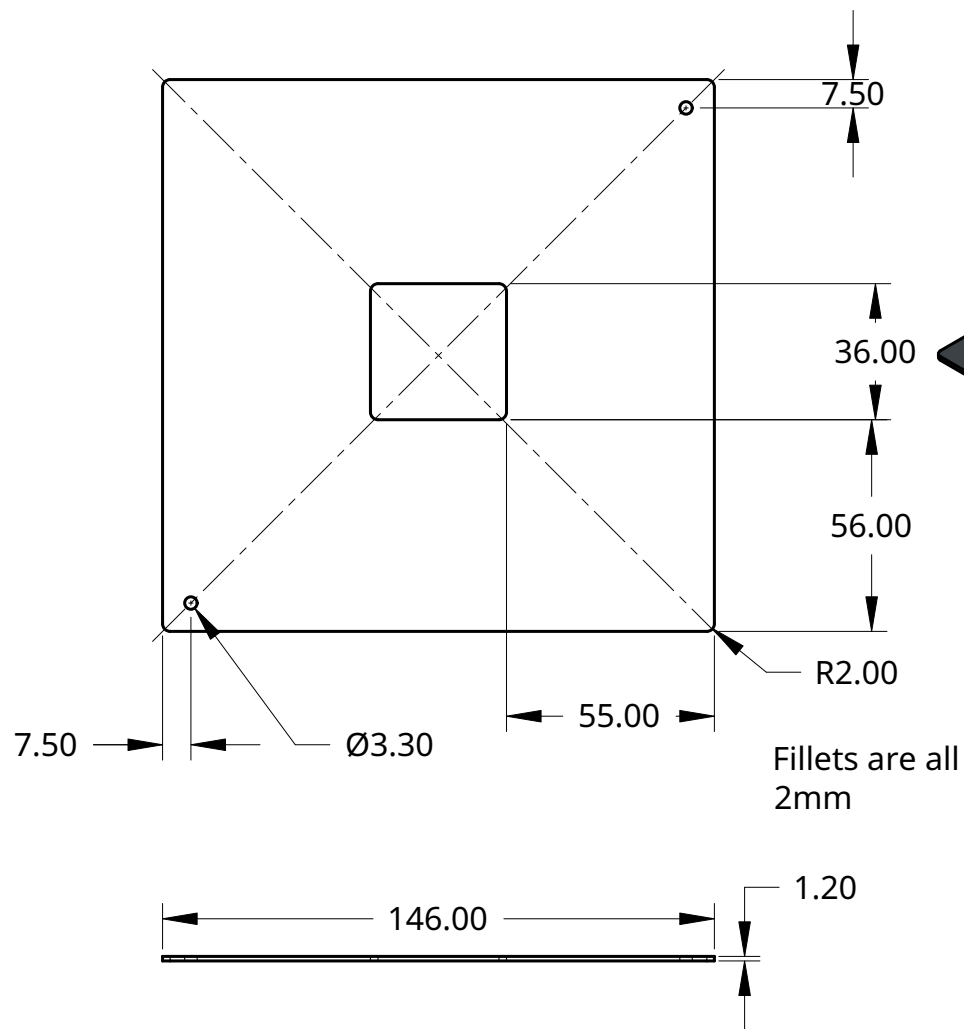


All corner
rounds
are 2mm

Part is symetric
from left to
right







Part is symetric
across both
diagonals

inner cutout and
overall shape is a
perfect square

