

AH-10113-160035 Acoustic Housing Brief

**GENERAL INFORMATION**

The AH-10113-160035 is an asymmetrical horn that is available for the CH101 ultrasonic sensor that modifies the field of view to 160 degrees in the horizontal plane and 35 degrees in the vertical plane.

**DEVICE INFORMATION**

Part Number	Type	Diameter (mm)		Length (mm)	Field Of View (FoV)	
		Horizontal	Vertical		Horizontal	Vertical
AH-10113-160035	Exponential	0.7	3	3.8	160	35

- CAD file for 3D printing of AH-10113-160035 is available from Chirp Microsystems.
- PIF (Particle Ingress Filter) is required to be used with the AH-10113-160035 horn and is shown in Figure 2 below.
- Recommendations for adhesives, gluing instructions, 3D printing guidelines, and basic verification after installation of AH-10113-160035 see document AN-000223.

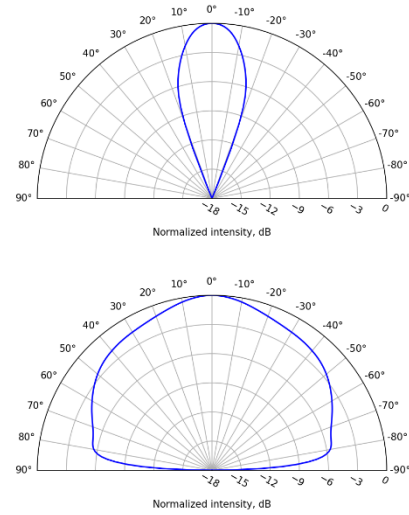


Figure 1: AH-10113-160035 Beam Patterns

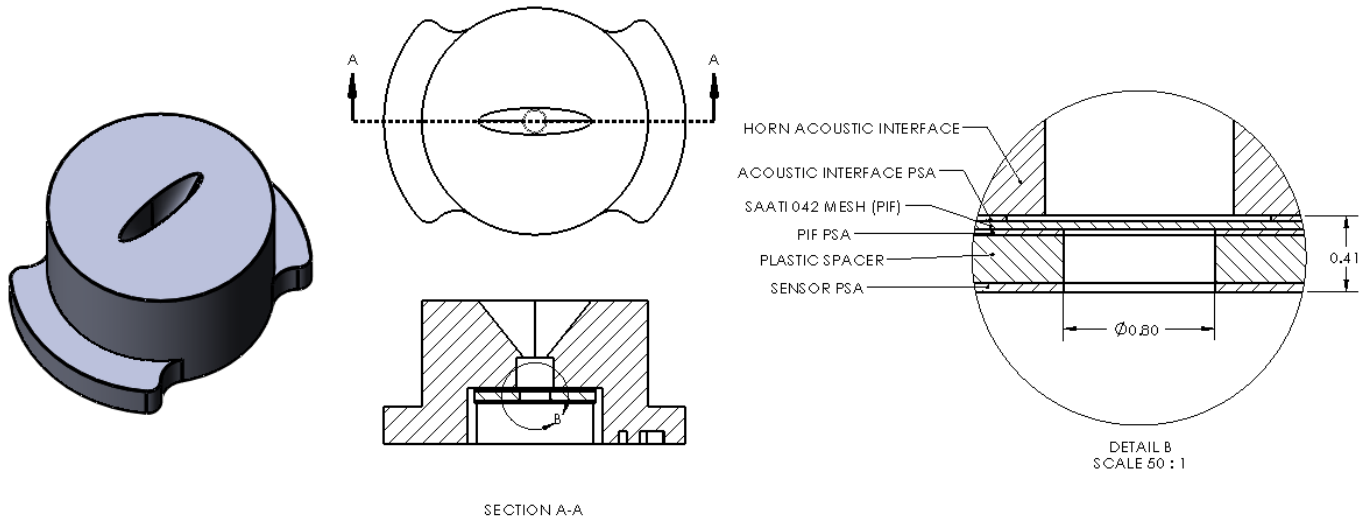


Figure 2: AH-10113-160035 Acoustic Horn Drawing