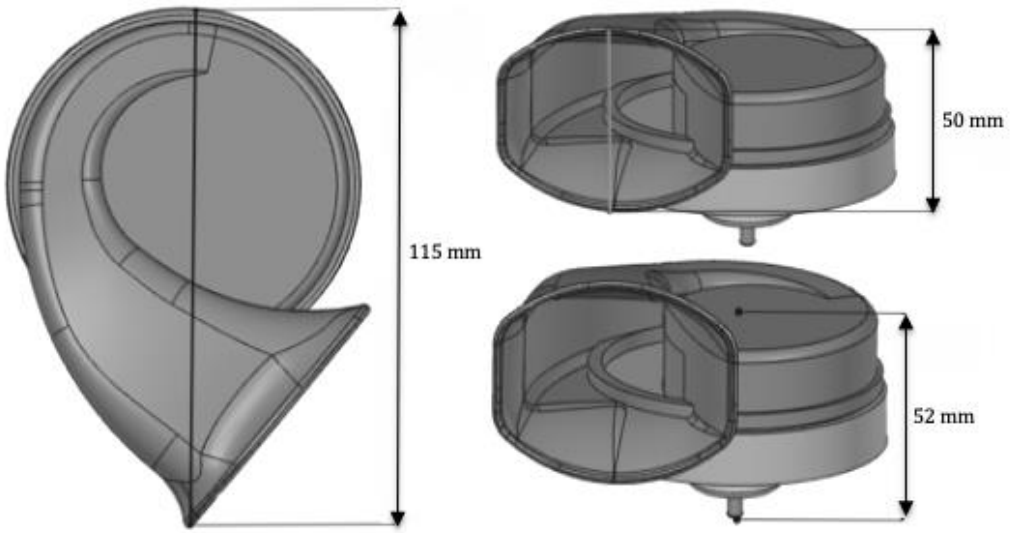
MEERYA — FINDING YOUR FREQUENCY

Main Specifications:

Nominal Voltage	12, 18, 24	VDC
Voltage Range	11 - 28	VDC
Current Consumption	3.5 - 4 (Horn Pair)	A
Max Sound Pressure Level	112-115 (2 meters)	dB(A)
Frequency "L" Range for Max SPL	400-435	Hz
Frequency "H" Range for Max SPL	495-515	Hz
Frequency “L” Range (<= 95 dB(A) – 2 meters)	800 – 870	Hz
Frequency “H” Range (<= 95 dB(A) – 2 meters)	990 – 1,030	Hz
Operating Temperature	-40 to +85	Celsius
Storage Temperature	-40 to +85	Celsius
Weight	350 (Horn Pair)	Grams
Durability (1 Sec On and 4 Sec Off)	>100,000	Cycles
Continuous Blowing	Programmed to timeout after 1 min	
Main Material	ABS, Steel and PCB Components	
Programming Language Used	C (Utilizes PWM)	
Main Applications	4-Wheel and 2-Wheel Vehicles	

Dimensions:



Platforms and Features:

1. Plug and Play (Stand Alone)
    a. Volume and tone are self-adjusting
        i. at lower speeds, volume and tone will be lower
            1. customizable sounds: quick double beep, fade low fade high, shifting frequencies, etc.
        ii. at high speeds, volume and tone will default to max SPL
            1. sound will be similar to current vehicle horns
        iii. at low speed, driver or vehicle can abort low/soft volume to max SPL by operating horn twice within 1 second interval

    b. Lock confirmation and alarm will adjust accordingly.
        i. lock confirmation will be soft when driver presses button once, but will default to loud setting if driver presses lock button twice quickly
        ii. alarm will work at the max SPL after first operation

    c. Self-shifting input settings based on voltage input

2. Integrated Model (CAN)
    a. This model is adaptive to work with existing vehicle sensors
        i. will work with, but not limited to, speed, brake pressure, collision warning, automatic braking and ADAS features
            1. adjust the tone and volume of the horn as well as sounds automatically
                a. customizable sounds for various scenarios: quick double beep, fade low fade high, shifting frequencies, etc.

    b. Lock confirmation and alarm can be customizable or standard
        i. lock confirmation can utilize unique tones or sounds to distinguish differences
        ii. alarm can have more drastic tones if danger is present

    c. Self-shifting input settings based on voltage input
        i. horn relay is not required with this model