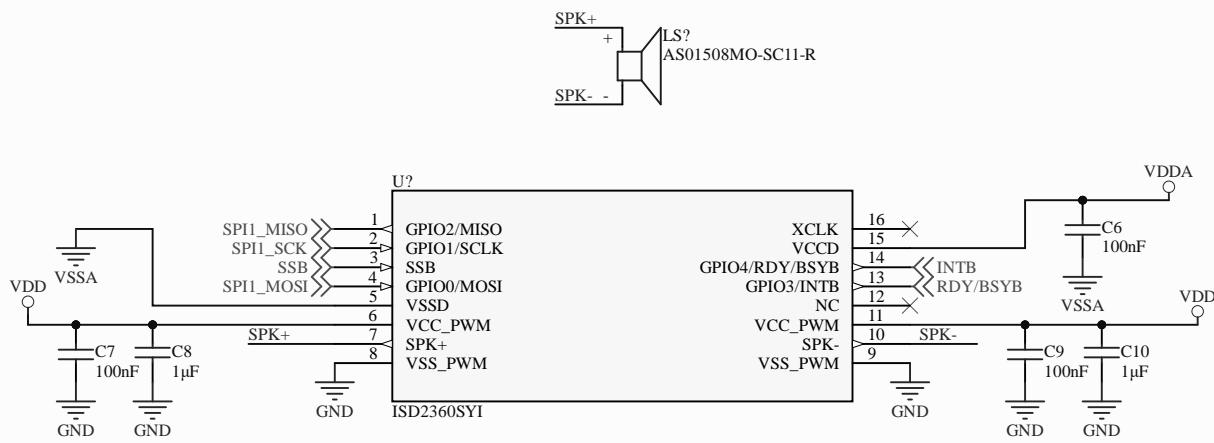
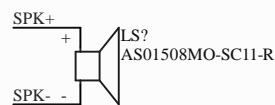


A

A



Chose to connect PWM power supplies to VDD and GND because they may need high current

Chose to connect digital power to VDDA and VSSA because those are what the STM32's digital power supplies are connected to

Added extra 1μF decoupling capacitors to PWM power ports because they may need high current

Decided to use STM32's SPI1 (PA4-7) to communicate with MCU

Connected SSB to PB1

Connected RDY/BSYB to PB2

Connected INTB to PB4

Chose not to connect XCLK, as: "The ISD2360 requires no external clock sources or components except a speaker"

B

B

C

C

D

D

Module: H01R0	Title: H01R0_Frontend 1.SchDoc	
Description: RGB LED	Revision: 0	Size: Letter
Date: 11/13/2025	Time: 10:09:10 PM	Sheet 2 of 3
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A

A

B

B

C

C

D

D

Module: H01R0	Title: H01R0_Frontend 2.SchDoc	
Description: RGB LED	Revision: 0 Size: Letter	
Date: 11/13/2025	Time: 10:09:10 PM	Sheet 3 of 3

