



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 1uF 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"

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

	1	2	3	4
A				
B				
C				
D			<div> <div>Module: <i>H01R0</i></div> <div> <div>Description: RGB LED</div> <div>Date: 11/13/2025</div> </div> </div> <div> <div>Title: H01R0_Frontend 2.SchDoc</div> <div> <div>Revision: 0</div> <div>Size: Letter</div> </div> <div> <div>Time: 10:09:10 PM</div> <div>Sheet 3 of 3</div> </div> </div> <div>  <div> <div>HEXABITZ</div> <div>www.hexabitz.com</div> </div> </div>	
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