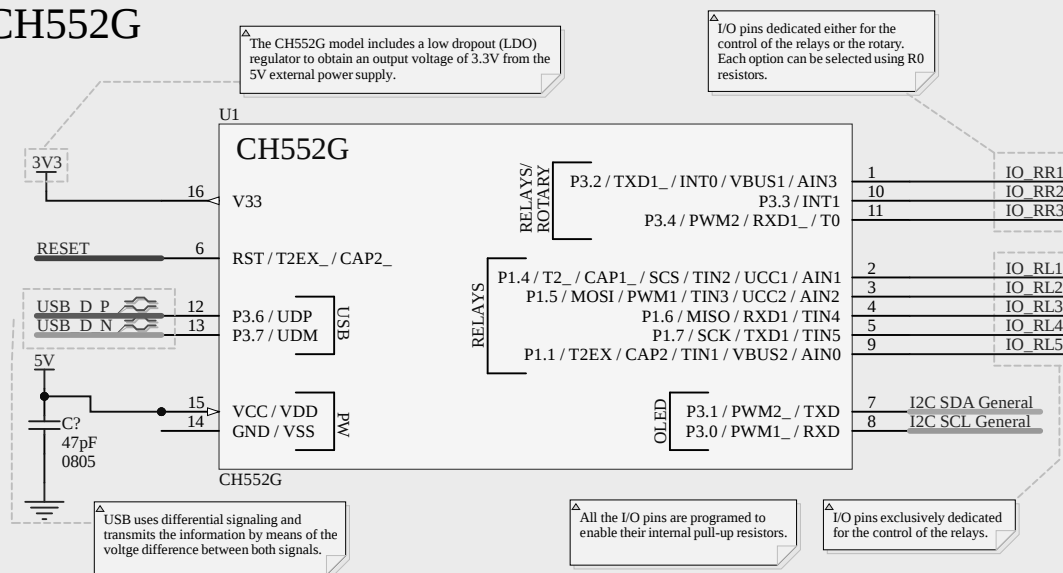


CH552G

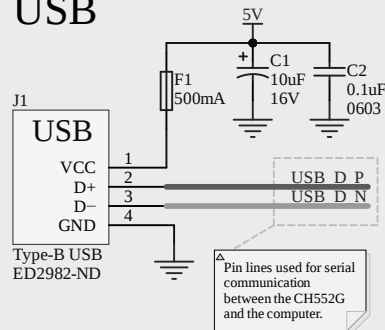


Parameter	Min	Max	Unit
Operating temperature range (TA)	-40	85	°C
Temperature range during storage	-55	70	°C
Supply voltage (VCC)	-0.4	5	V
I/O voltage for P3.6/P3.7 (V10U)	-0.4	V33 + 0.4	V
I/O voltage except P3.6/P3.7 (VIO)	-0.4	VCC + 0.4	V

Parameter	Min	Typ	Max	Unit
Supply voltage (VCC5)	3.7	5	5.5	V
Regulator voltage (V33)	3.14	3.27	3.4	V
Input voltage (VIL5)	-0.4	-	1.2	V
Input voltage (VIH5)	2.4	-	VCC+0.4	V
Output (VOL5) (12mA sink.)	-	-	0.4	V
Output (VOH5) (8mA output)	VCC-0.4	-	-	V
P3.6/P3.7 high level (VOH5U)	V33-0.4	-	-	V

Parameter	Typical	Unit
Total supply current (F _{Sys} = 24 MHz)	11	mA
Total supply current (F _{Sys} = 6 MHz)	6	mA
Total supply current (F _{Sys} = 750 kHz)	3	mA
Total supply current after sleep	100	uA
Total supply current after total sleep	80	uA
ADC module operating current	200	uA
Comparator module operating current	100	uA

USB

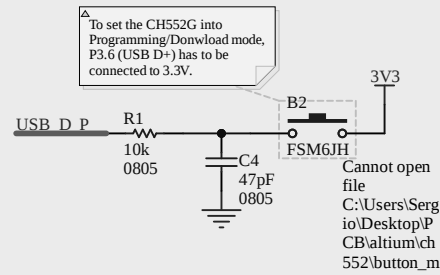


Cannot open file
C:\Users\Sergio\Desktop\PCB\altium\ch552\usb_B_type_1_model.png. File does not exist.

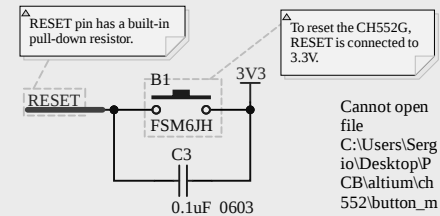
Pin designator	Pin name
1	VCC
2	D+
3	D-
4	GND

Table 4. Type-B USB pinout

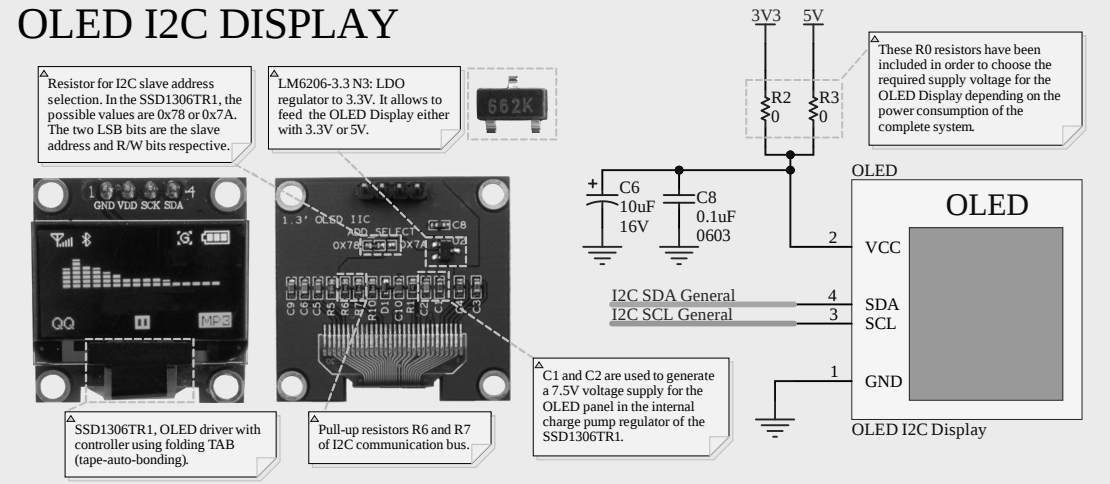
DOWNLOAD TOUCH-KEY



RESET TOUCH-KEY



OLED I2C DISPLAY



Designer's signature
Cannot open file
C:\Users\Sergio\Desktop\PCB\altium
r63h552pender
Supervisor's signature

Sheet title: ch552.SchDoc

Project title: **Project_PWM.PrjPcb**

Designer:

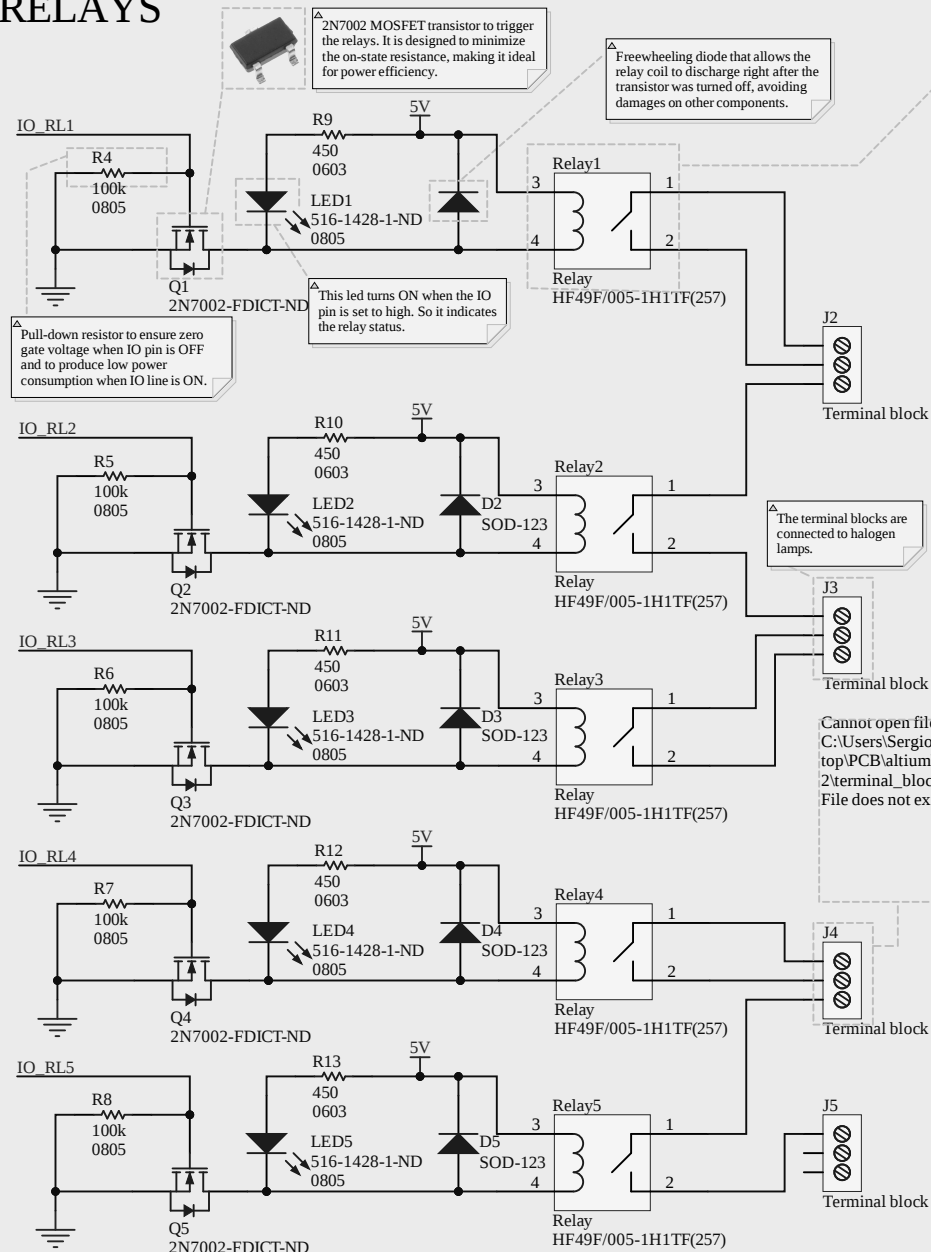
Date: 31.10.2020

Revision: 03

Sheet: 1 of 3

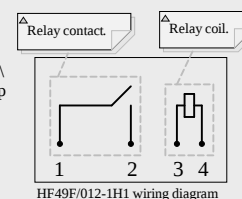
Cannot open file
C:\Users\Sergio\Desktop\PCB\altium\ch552\new_logo2018_09.svg.png. File does not exist.

RELAYS



Parameter	Min	Max	Unit
Operating temperature range	-40	85	°C
Operating humidity range	5%	5%	RH
Operate time	-	10	ms
Release time	-	5	ms

Table 1. HF49F/005-1H1 general characteristics



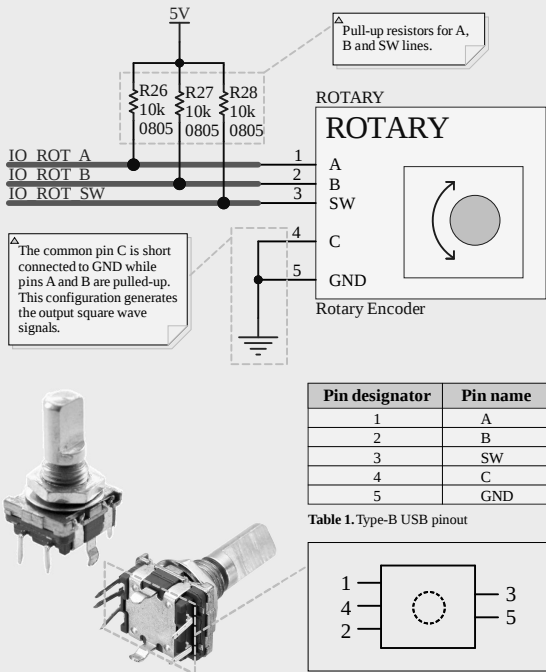
Parameter	Value	Unit
Contact resistance (at 1 A, 6 VDC)	100	mΩ
Max. switching voltage	250AC / 30DC	V
Max. switching current	5	A

Table 2. HF49F/005-1H1 contact characteristics

Nominal voltage	Drop-out voltage	Coil resistance
5 VDC	0.25 VDC	208 Ω
6 VDC	0.30 VDC	300 Ω
9 VDC	0.45 VDC	675 Ω
12 VDC	0.60 VDC	1200 Ω
18 VDC	0.90 VDC	2700 Ω
24 VDC	1.20 VDC	3200 Ω

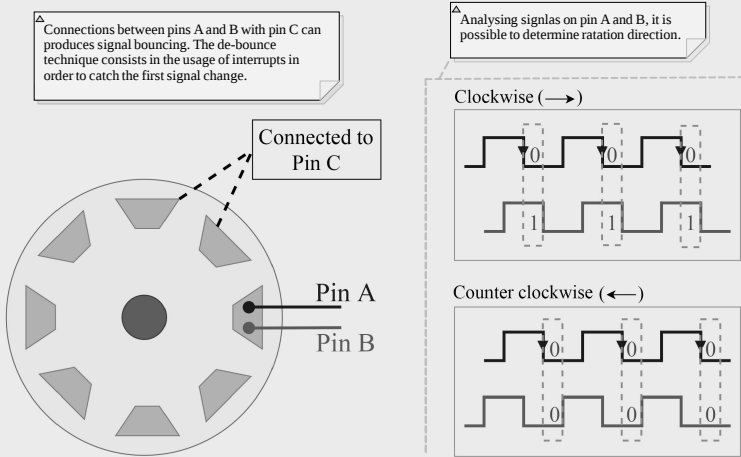
Table 3. HF49E/005-1H1 coil characteristics

ROTARY

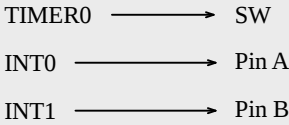


OUTPUT SIGNALS

- 1) Initial status of pins A, B and SW is high due to pull-up resistors.
- 2) When pins A or B reach a pin C path, their value go to low due to the short connection of pin C to GND.
- 3) When SW is triggered, its value turns into low.



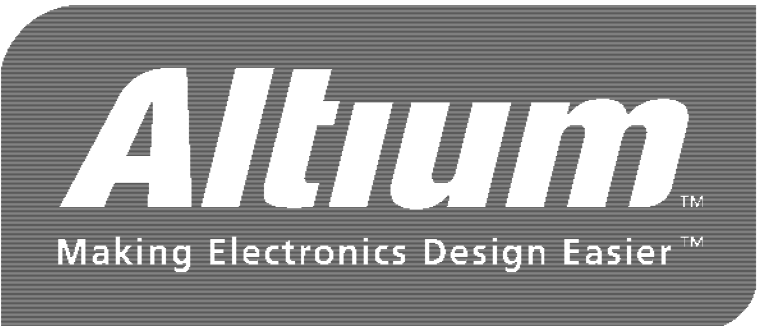
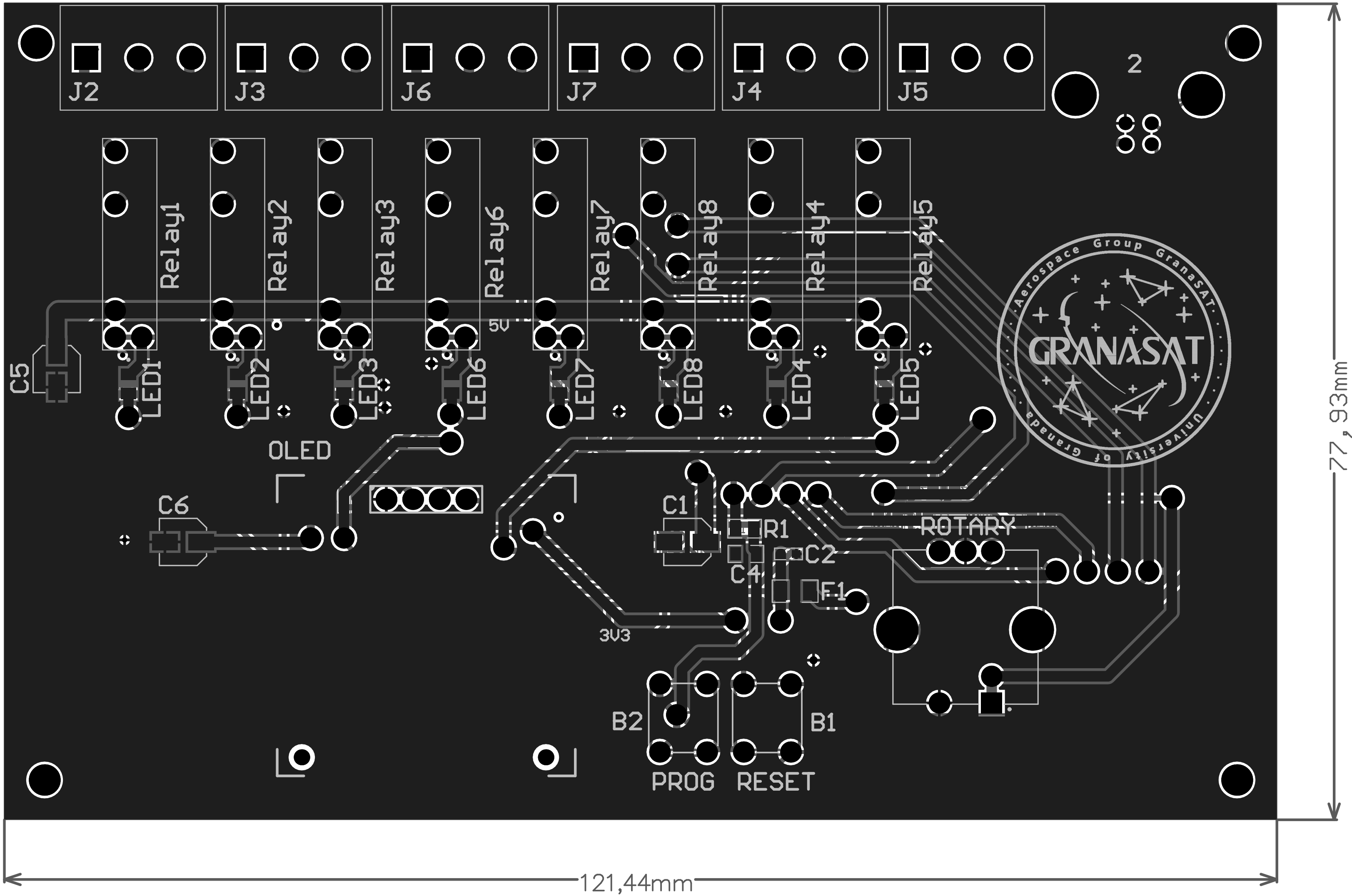
INTERRUPTS



Description	Source	Priority
External interrupt 0 (INT0)	INT_NO_INT0	Highest
Timer 0 interrupt (TIMER0)	INT_NO_TMR0	↓
External interrupt 1 (INT1)	INT_NO_INT1	↓

Table 2. Interrupts table

Designer's signature Cannot open file C:\Users\Sergio\Desktop\PCB\altium\ch552\pin18e C:\Users\Sergio\Desktop\PCB\altium\ch552\pin18e	Sheet title: Rotary.SchDoc			Cannot open file C:\Users\Sergio\Desktop\PCB\altium\ch552\new_logo2018_09.svg.png. File does not exist.
	Project title: Project_PWM.PrjPcb			
Supervisor's signature Cannot open file C:\Users\Sergio\Desktop\PCB\altium\ch552\pin18e C:\Users\Sergio\Desktop\PCB\altium\ch552\pin18e	Designer:			
	Date: 31.10.2020	Revision: 03	Sheet: 3 of 3	



Altium Limited
12a Rodborough Rd
Frenchs Forest
NSW 2086

ENGINEER:	TITLE:		
PCB DESIGNER:			
DATE: 02/03/2022	PART NO.:	REV:	
FILE NAME: G_V02_PWM_Final.PCBDOC	DWG NO:	SCALE:	

