



- Features -**
1. Back EMF Protection. ✓
  2. 2x Channel.
  3. PWM Input should be isolated (No common ground with MCU). ✓
  4. LEDs indicating the direction of the Motor.
  5. Push button for testing the motor in both the directions.
  6. XT60 Terminals. ✓
  7. Should not jitter at low speeds.
  8. Should have a 100k resistor at output to provide a discharge path for Back EMF. ✓
  9. Should have a voltage feedback from the output terminals.
  10. Reverse Voltage Protection from the battery. ✓
  11. Over Current Protection. ✓

Output filter capacitors

- Notes:**
1. Driving frequency shouldn't increase more than 100kHz
  2. High side NMOS recieves 40V at 24V mode and 26V at 12V mode
  3. Switching frequency of boost is 50kHz with 50% duty cycle