







Voltage in (V)	Dropped Voltage (V)	Voltage / 0.5 Ohms (A) [I = V/R]
16	0.008	0.016
6	0.0064	0.0128

For varying in frequency of PWM between 50 kHz to 100 kHz, Vout doesn't change much, but the ripple decreases at higher frequency. Higher switching frequency made the output smoother

For varying the duty cycle of PWM, increasing the duty cycle increased Vout. and decreasing the duty cycle decreased Vout.

Current = (measured voltage across 0.5 Ω) / 0.5. , as in, if we measured voltage, current is double as indicated in the table.

When Vin increases to 16V, both vout and the output current increase.

OPAMP_OUT adjusts the duty cycle. Thus, as OPAMP_OUT increases, Vout increases, but as OPAMP_OUT decreases, Vout decreases