

Mini 560 5v Fixed Output Buck (Step-Down) DC-DC Converter - 5A

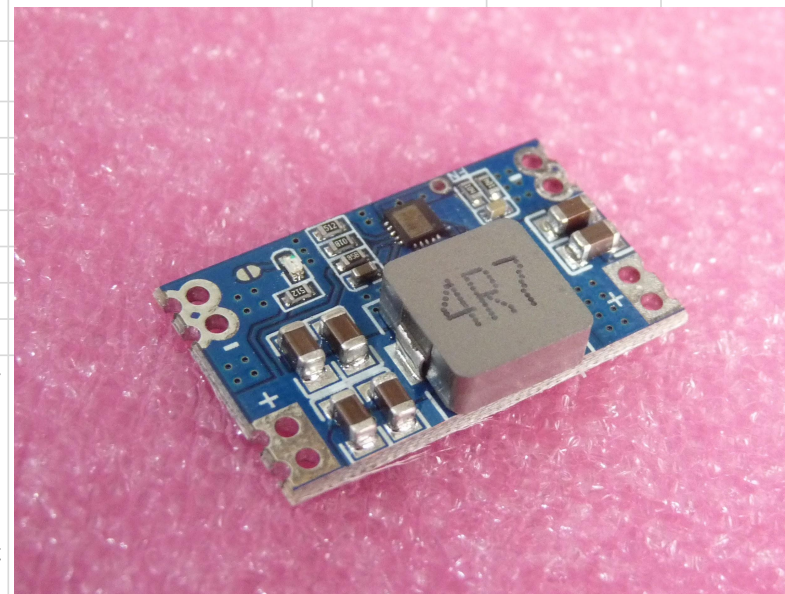
These tests were conducted by Gogo:Tronics using common hobby grade and DIY equipment, voltages and currents were generally set/recorded to within +/- 3%

Tested Input Range	7 to 20v (see below table for further limits)		
Tested Output Range	5v		
Tested Current	5A Continuous, 6.5A Short Burst (Thermal Shutdown Follows)		
Typical No Load Current	2.5mA		
Comments			

Generally performance was quite impressive. Output ripple was observed to be very good with my test setup, 100-300mVpp in the worst cases and typically under 100mVpp, the device has 4 chunky ceramic output capacitors which likely helps here compared to some others I have seen.

The Mini 560 has a quite sensitive over-current at around 8A and inrush current to capacitors at the load greater than 220uF (certainly 440uF) may trigger it. Over current and Thermal Shutdown requires turning off and on again (off enough time to discharge input caps) to reset. This combined with the over-current sensitivity makes this device not suitable for loads with large capacitors that don't have inrush limiting as it won't start if the inrush current trips the over-current.

Output Voltage	Max Output Current	Min Input Voltage	Best Tested Efficiency
5v	6.5	7v	95% 2A @ 7v Input



Efficiency vs Output Current for Input Voltages, Output = 5v

