



Rapido hot end cylindrical ceramic heater power test

Room temperature 24°C
 Controller Board MKS BASE V1.4
 Hot end RAPIDO-hotend
 Controller Board power voltage 24V DC
 Firmware marlin 2.0
 No Firmware heater power limiting
 Measure the current and voltage on the ceramic heater leads after heating
 Read the temperature from the LCD
 Record the values of current and voltage while passing certain temperatures

Result:

Temperature reading °C	Voltage on heater leads V	Heater leads current A	Heating power W
24	23.6	4.48	105.7
50	23.6	2.68	63.2
100	23.6	2.43	57.3
150	23.6	2.28	53.8
200	23.6	2.15	50.7
250	23.8	2.03	47.9
280	23.8	1.98	46.4
300	23.8	1.94	46.2

Please note that the temperatures in the table are thermistor embedded in the melting zone not the actual temperatures of the heating element especially at low temperatures.