MCF5407 Power Dissipation

Typical Power Numbers - Nominal Voltage on Ivcc & Evcc[1]

Bus Frequency	Clock Ratio Multiplier	Power Rail Current Consumption (mA)		Power Dissipation (mW)
		3.3V	1.8V	
50Mhz	3 to 1	65.5	185.1	549.33

Bus Frequency	Clock Ratio Multiplier	Power Rail Current Consumption (mA)		Power Dissipation (mW)
		3.3V	1.8V	
54Mhz	2 to 1	64.3	145.3	473.73
	3 to 1	67.7	196.2	576.57

Max Power Numbers - Max Voltage on Ivcc & Evcc[2]

Bus Frequency	Clock Ratio Multiplier	Power Rail Current Consumption (mA)		Power Dissipation (mW)
		3.6V	1.95V	
50Mhz	3 to 1	80.3	197.5	674.205

Bus Frequency	Clock Ratio Multiplier	Power Rail Current Consumption (mA)		Power Dissipation (mW)
		3.6V	1.95V	
54Mhz	2 to 1	80.2	160	600.72
	3 to 1	87.4	209	722.19

Notes:

1. Typical power measurements recorded while running Dhrystone 2.1 code found on 5272 website.

2. Meaurement recorded while following operations running:
   a. Both Timers on and running
   b. DMA continually transferring blocks of data
   c. Both UARTS transferring data
   d. Cache on
   e. LEDs being turned on in continuous loop