

Wave Calculations

1. $F_{\text{wave}} = f_{\text{cpu}} / \text{preScaler} * \text{steps in timer} * \text{steps in wave}$

SawTooth

High Frequency 16 million/ $64 * 1 * 255 = 980.39$

Low Frequency 16million/ $64 * 255 * 255 = 3.845$

Sine Wave

High Frequency 16 million/ $64 * 1 * 255 = 980.39$

Low Frequency 16million/ $64 * 255 * 255 = 3.845$

Triangle Wave

High Frequency 16 million/ $64 * 1 * 510 = 490.196$

Low Frequency 16million/ $64 * 255 * 510 = 1.9922$