

PIC BASED MOOD LOOP GENERATOR

Prepared by: Dee Boon Wei

ABSTRACT

The main objective of my project is to provide a personal space for user to relax their mind after whole day work. These devices generate weak magnetic fields at 'brainwave' frequencies, which are thought to encourage mental states of relaxation, creative mental imagine and even help the user to sleep. My project is based on the Microchip micro controller PIC16F84A to control the frequencies output. The frequencies are adjustable and they are classifying into Alpha, Beta, Delta and Theta frequency ranges.

There are other points will be discussed for better understanding in the construction of this project such as PIC programming, power amplifier and Op Amp usage as inverting amplifier, comparator, voltage follower. Information obtained, technique applied done while developing this project will mentioned as well.