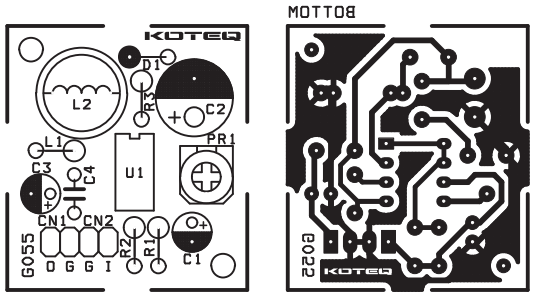
# INVERTING SWITCHING REGULATOR 5V TO -12V ( MC34063)

The DC/DC inverting switching regulators project is specifically designed to invert input voltages to negative outputs. It offer input voltage ranges from 4.5V to 6V and output -12V 100mA The MC34063A IC is heart of the project from On semiconductor. The MC33063A is a monolithic control circuit containing the primary functions required for DC-DC converters, This device consist of an internal temperature compensated reference, comparator, controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch. This IC specially designed to be incorporated step-down, step-up, and voltage-inverting applications with minimum number of external components.


**Features**
Input 4.5V To 6V DC
Output -12V 100mA
Output Fine Adjustable By On-board Preset
Header Connector for Output/Input Connections
Low Standby Current
On Board Filter To Provide Low Ripple Output
PCB Dimensions 31.75mmX34.93MM

**PR1=Output Voltage Adjust**
**CN1=Output -12V 100mA ( Negative 12V)**
**CN2=Supply Input 4.5V to 6V DC**




| SR. | QTY. | REF. | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | CN1,CN2 | 4 PIN RA/ST BERG CONNECTOR |
| 2 | 2 | C1,C3 | 100uF/25V |
| 3 | 1 | C2 | 470uF/16V |
| 4 | 1 | C4 | 1.5nF |
| 5 | 1 | D1 | FR107 |
| 6 | 1 | L1 | 1uH |
| 7 | 1 | L2 | 88uH |
| 8 | 1 | PR1 | 10K PRESET |
| 9 | 2 | R1,R2 | 1E |
| 10 | 1 | R3 | 1K |
| 11 | 1 | U1 | MC34063A |
| 12 | 1 | SOCKET | 8 PIN DIP IC SOCKET |