28V STEP-UP, DC TO DC CONVERTER (12V TO 28V 170mA)

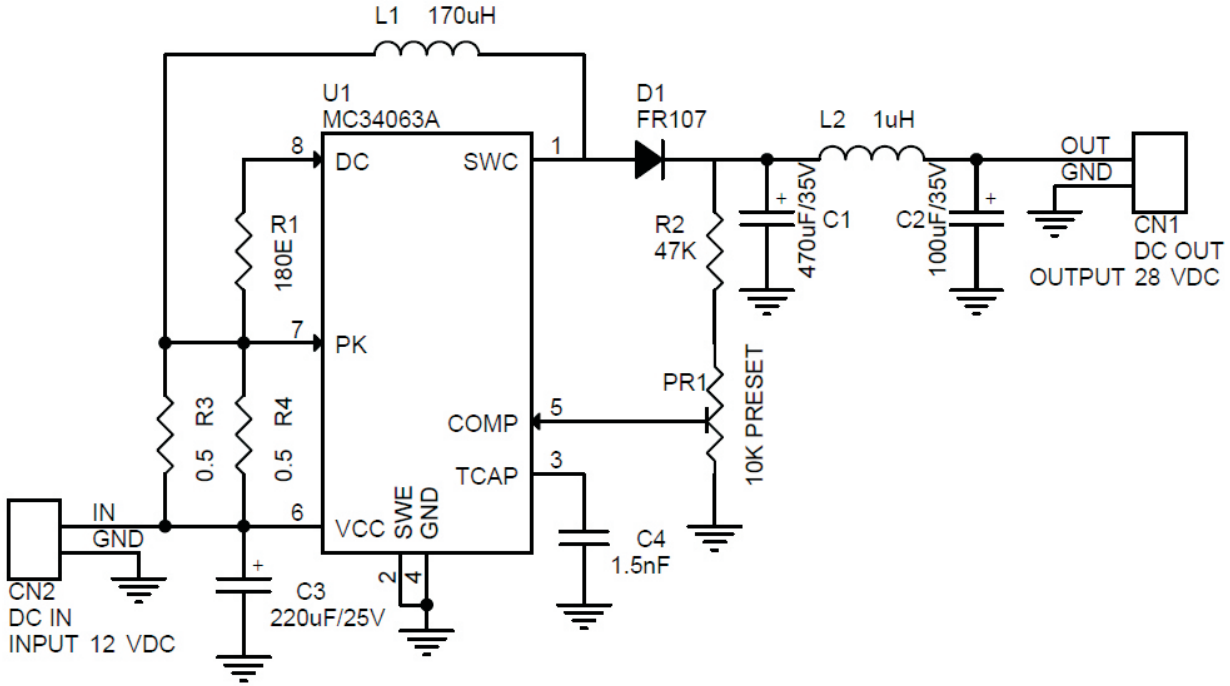
The Step-Up DC-DC Converter project provides 28V, 175mA output with input of 12V DC. The MC34063A IC is heart of the project from On semiconductor. The MC33063A is a monolithic control circuit containing the primary functions required for DC-DC converters, This device consist of an internal temperature 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 12V DC
Output 28V, 175mA
On-board Preset For Out Put Voltage Adjust
Header Connector for Output/Input Connections
Low Standby Current
On Board Filter To Provide Low Ripple Output
PCB Dimensions 28mmX33MM

CN1 Pin O : Output
CN1 Pin G : Ground

CN2 Pin I : Input
CN2 Pin G : Ground



BOM			
SR.	QTY.	REF.	DESCRIPTION
1	1	CN1 & CN2	4 PIN HEADER CONNECTOR
2	1	C1	470uF/35V
3	1	C2	100uF/63V
4	1	C3	220uF/25V
5	1	C4	1.5nF
6	1	D1	FR107 OR 1N5819
7	1	L1	170uH INDUCTOR
8	1	L2	1uH INDUCTOR
9	1	PR1	10K PRESET
10	1	R1	180E
11	1	R2	47K
12	2	R3,R4	0.5E
13	1	U1	MC34063A
14	1	SOCKET	8 PIN DIP IC SOCKET