

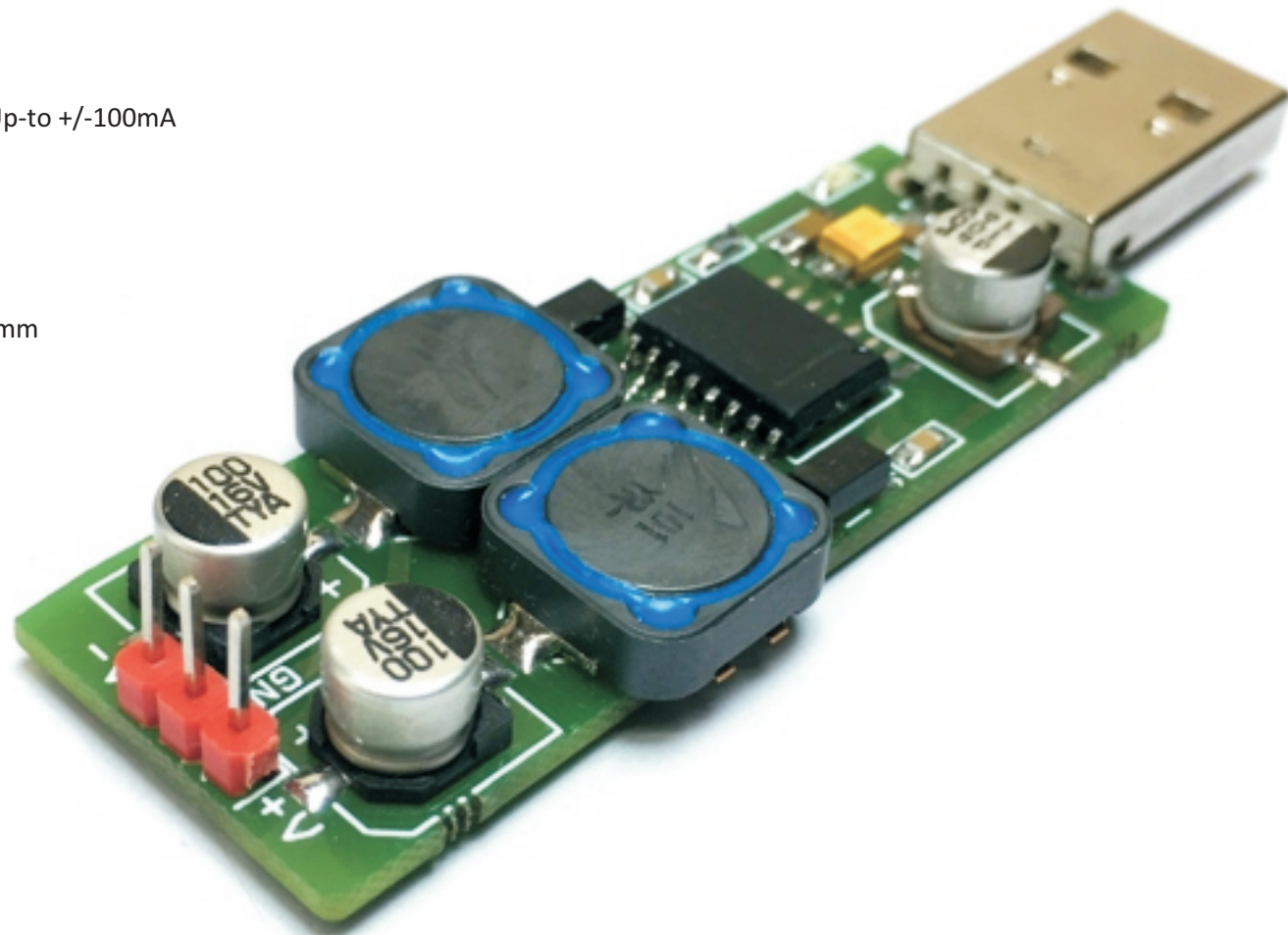
## USB (5V DC) To Dual Output +/-15V Or +/-12V Step Up DC-DC Converter

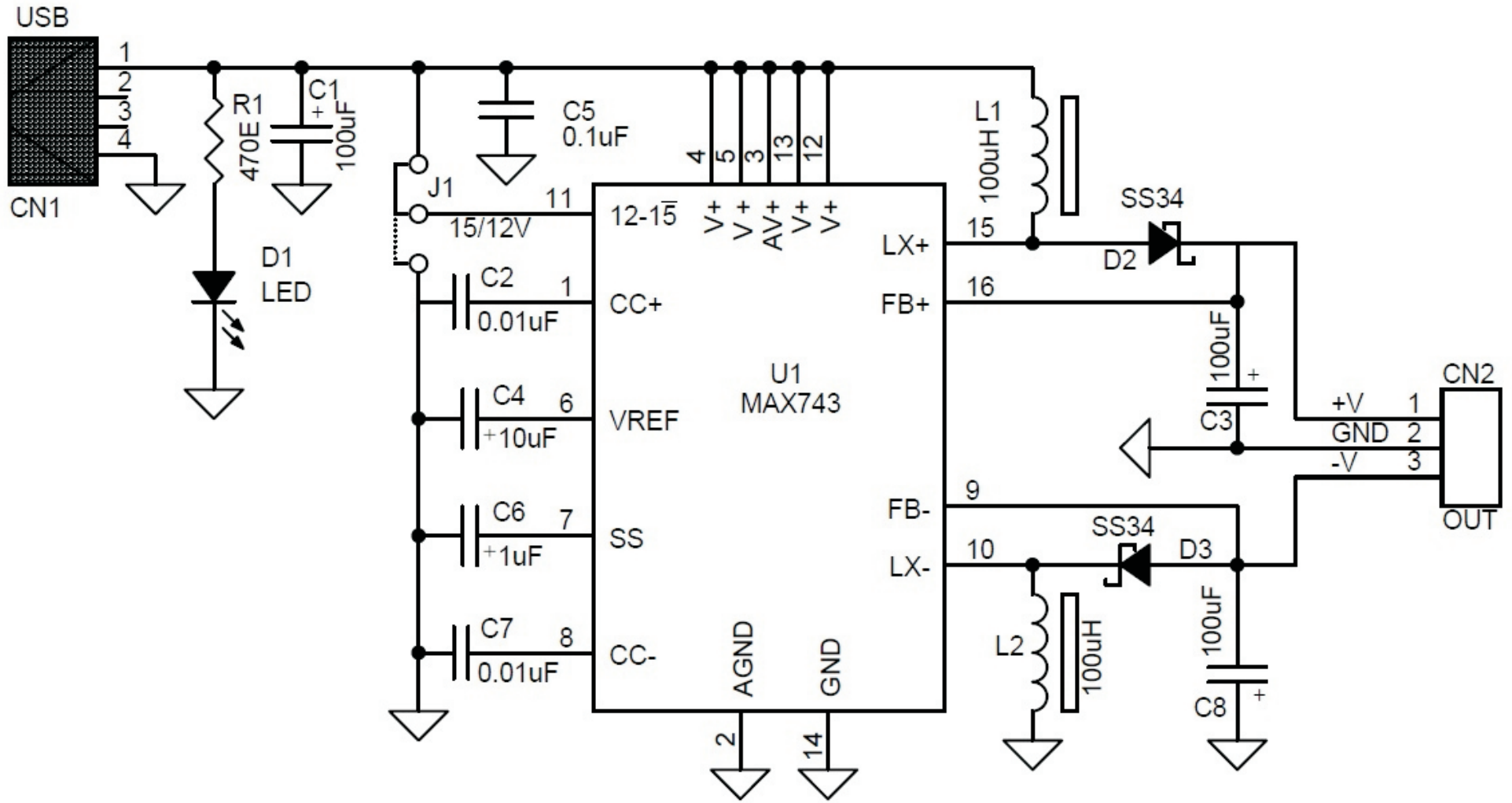
USB to dual output step-up DC-DC converter has been designed to use for industrial automation control equipment, sensors, isolated operational amplifiers and test & measurement equipment that require bipolar supply voltages. The module provides +/-15V or +/-12V DC load current up-to +/-100mA. On board PCB solder jumper provided to set the output voltage 15V or 12V DC. The project typically provides 75 to 82% efficiency over most of load range. it operates with current-mode feedback at 200Khz.

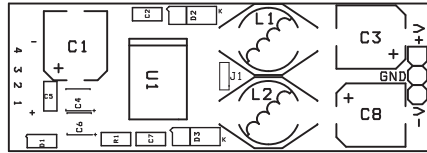
The Max743 DC-DC converter IC contains all the active circuitry needed to build small, dual-output power supplies, Relying on simple two terminal inductors rather than transformer, the MAX743 regulates both outputs independently to within +/-4% over all conditions of line voltage, temperature, and load current.

### Features

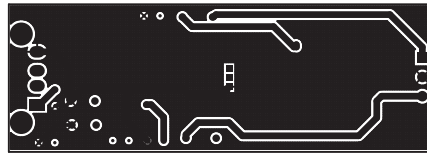
- DC Input USB Power Or 5V DC
- Output Dual 15V Or 12V DC Load Up-to +/-100mA
- Easy to Use USB Connector
- Header Connector for Output
- Efficiency 75 to 82%
- Operation Frequency 200 kHz
- On Board Power LED
- PCB Dimensions 56.37mm X 19.19mm



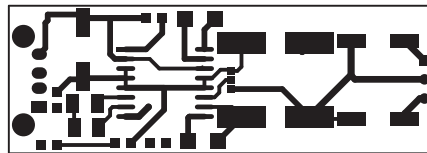




SILK SCREEN TOP



BOTTOM LAYER

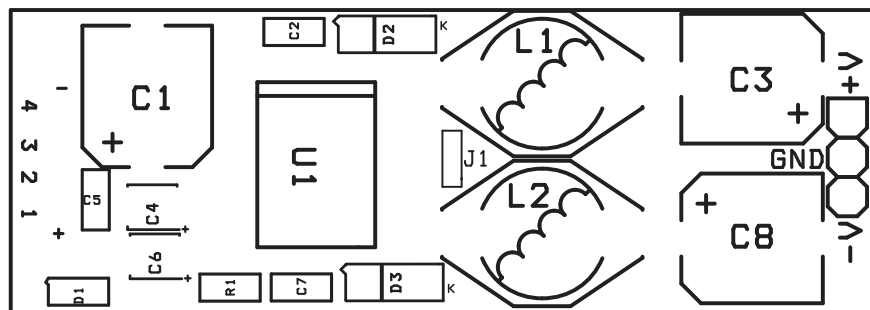


TOP LAYER

PCB DIMENSIONS 56.37mm X 19.19mm

BOM			
SR.	QNTY.	REF.	DESC.
1	1	CN1	USB CONNECTOR
2	1	CN2	3 PIN MALE HEADER CONNECTOR
3	3	C1,C3,C8	100uF/16V SMD
4	2	C2,C7	0.01uF SMD 0805
5	1	C4	10uF/16V SMD 1210
6	1	C5	0.1uF SMD 0805
7	1	D1	LED SMD 0805
8	2	D2,D3	SS34 SMD VISHAY
9	1	J1	PCB JUMPPER
10	2	L1,L2	100uH 12MM 1AMP
11	1	R1	470E SMD 0805
12	1	U1	MAX743 SO16
13	1	C6	1uF/25V SMD 1206

USB Power Input



Power LED

+DC Output  
GND  
-DC Output