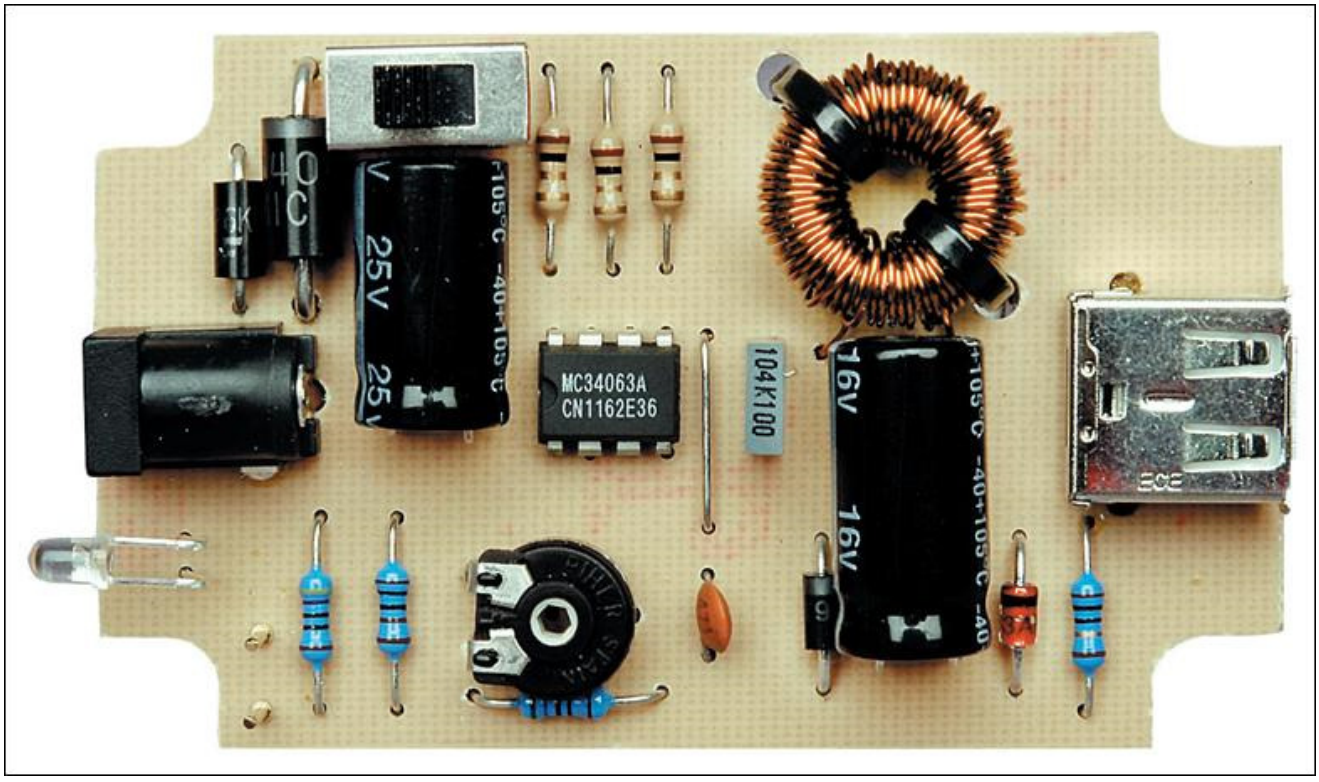
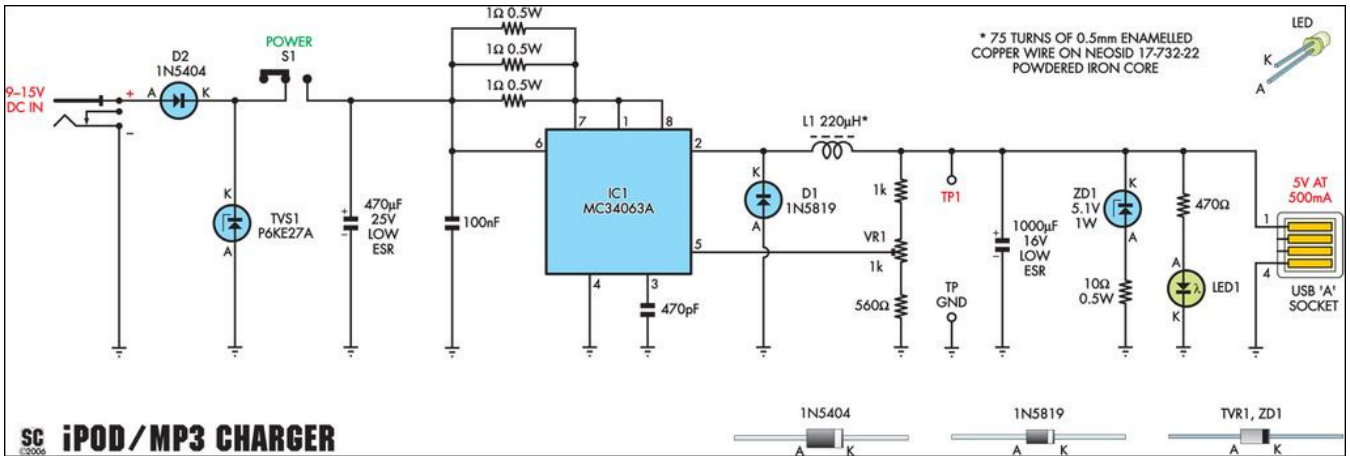
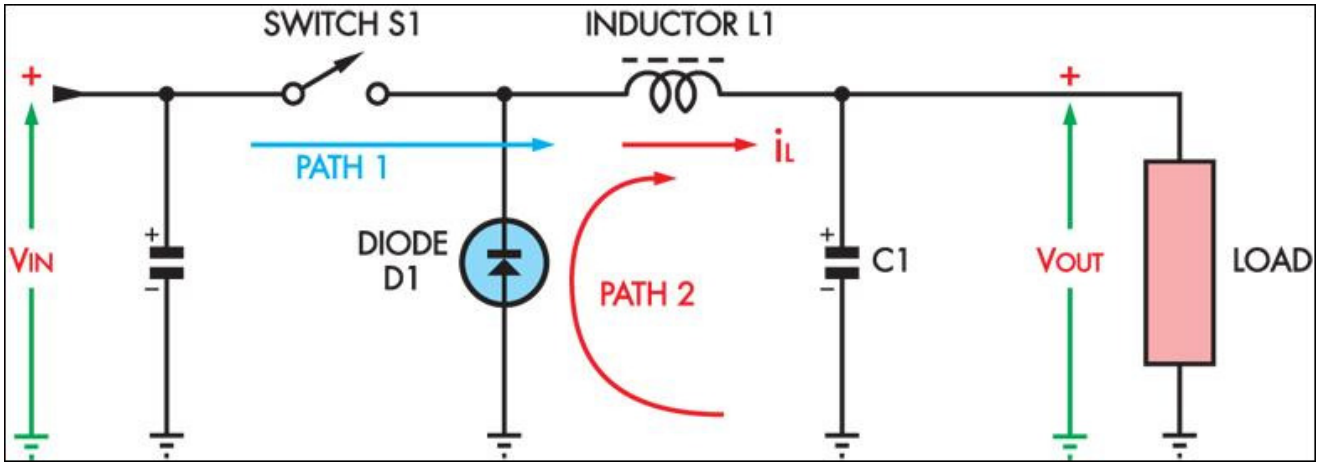
iPOD - MP3 Player Charger

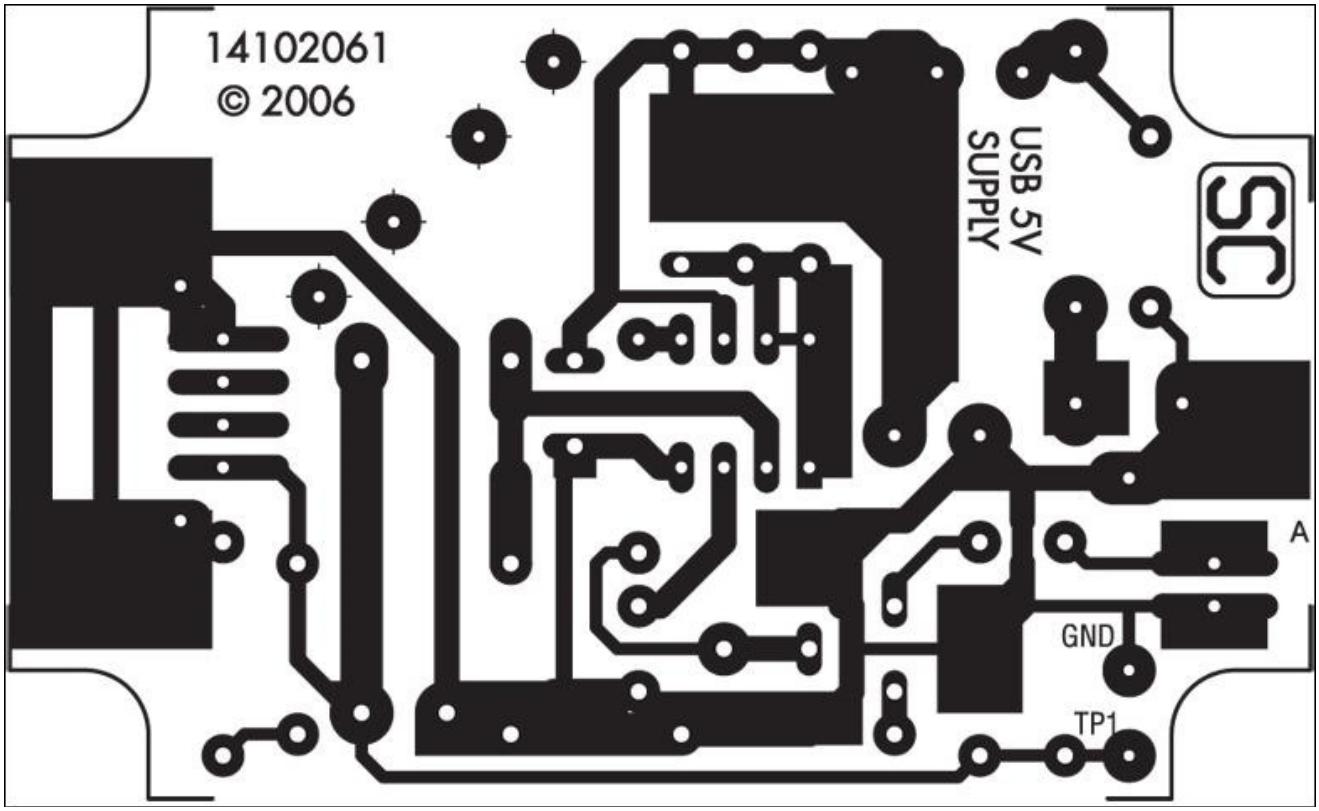


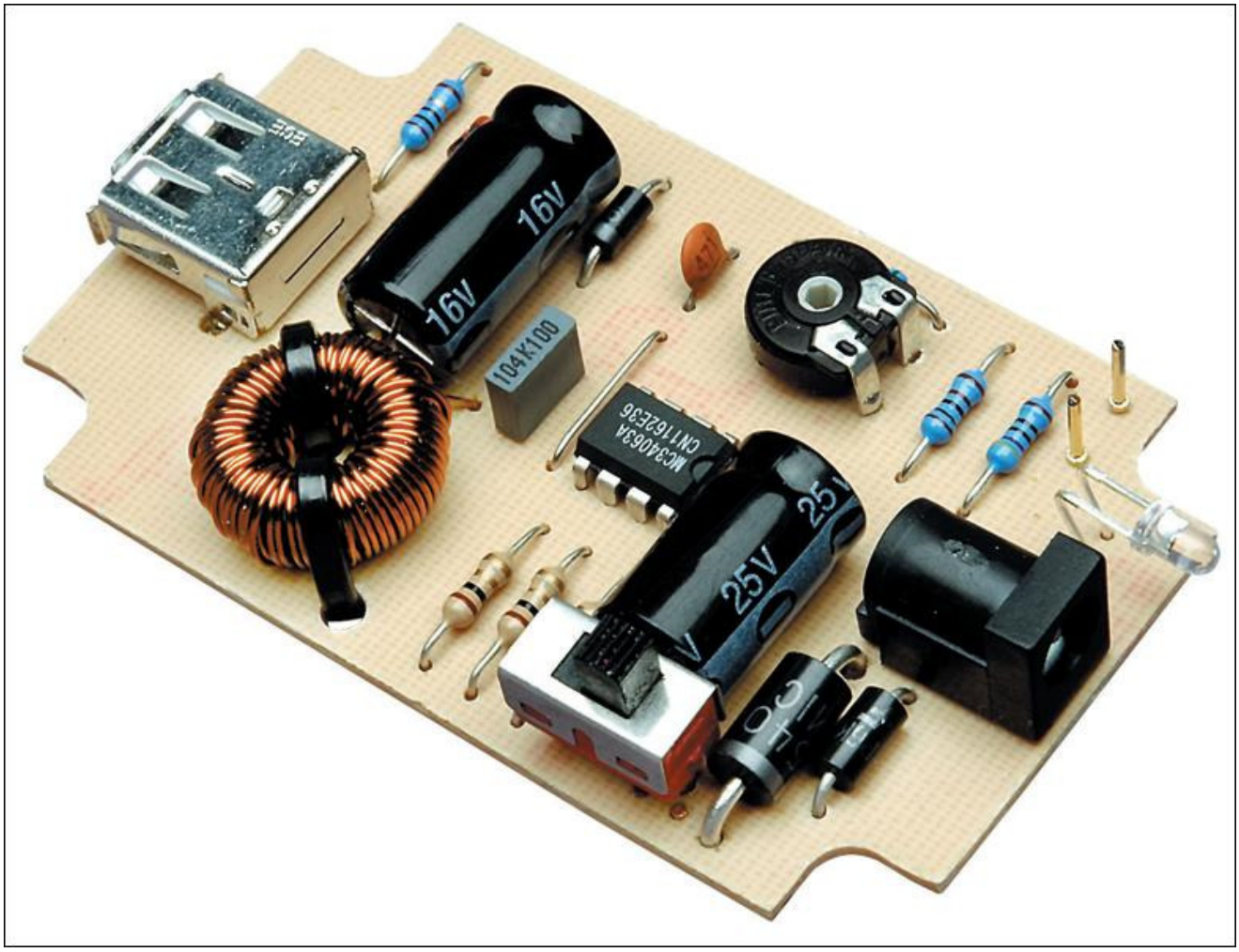
iPOD - MP3 Player Charger

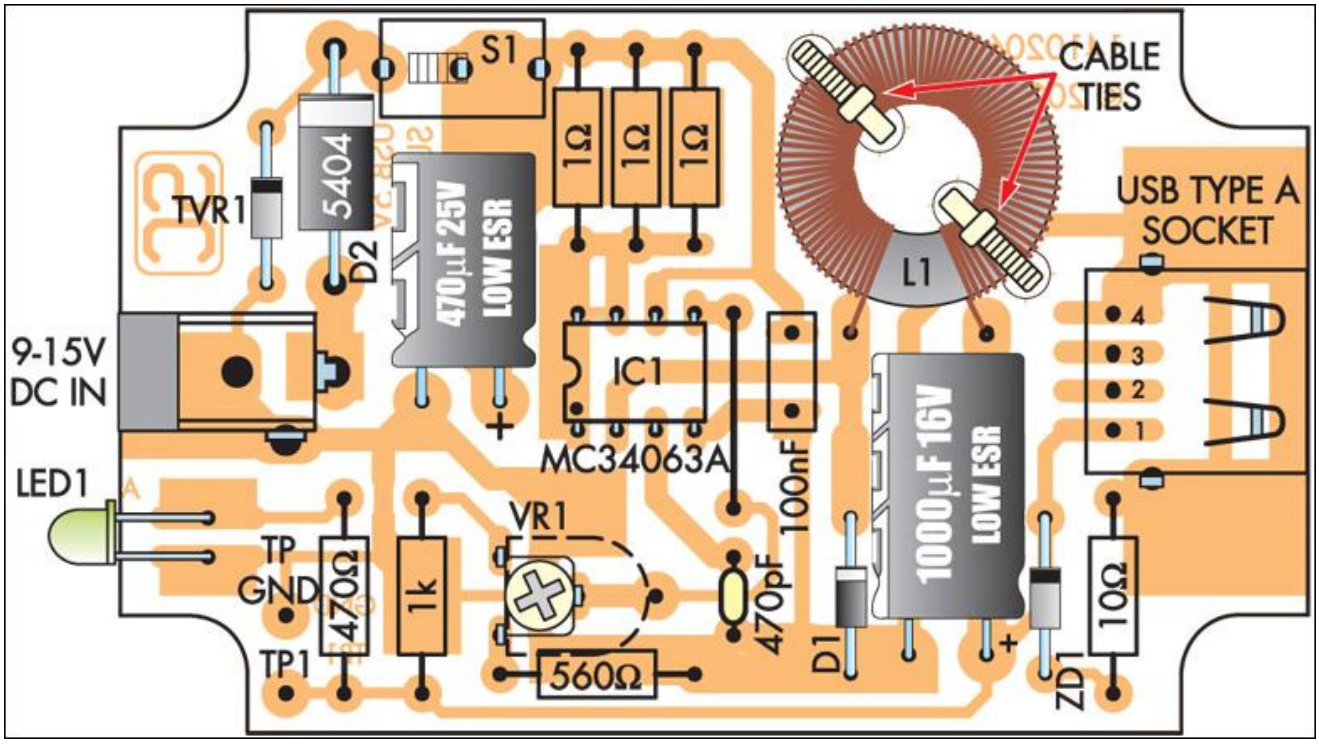
Portable iPod charger that you can use while away from your computer. The circuit is based around an MC34063 switchmode regulator. This has high efficiency so that there is very little heat produced inside the box, even when delivering its maximum output current. The circuit is more complicated than if we used a 7805 3-terminal regulator but since the input voltage could be 15V DC or more, the voltage dissipation in such a regulator could be 5W or more at 500mA. and 5W is far too much for a 7805, even with quite a large heatsink.


9~15V DC IN
D2 1N5404
POWER S1
TVS1 P6KE27A
470µF 25V LOW ESR
1Ω 0.5W
1Ω 0.5W
1Ω 0.5W
100nF
IC1 MC34063A
470pF
L1 220µH*
D1 1N5819
1k
VR1
1k
560Ω
TP1
TP GND
1000µF 16V LOW ESR
ZD1 5.1V 1W
10Ω 0.5W
470Ω
LED1
LED
* 75 TURNS OF 0.5mm ENAMELLED COPPER WIRE ON NEOSID 17-732-22 POWDERED IRON CORE
5V AT 500mA
USB 'A' SOCKET
iPOD/MP3 CHARGER
1N5404
1N5819
TVR1, ZD1


SWITCH S1
INDUCTOR L1
PATH 1
iL
PATH 2
VIN
DIODE D1
C1
VOUT
LOAD


14102061
© 2006
USB 5V SUPPLY
GND
TP1
A





Related Links

- Accurate LC Meter
- 60MHz Frequency Meter / Counter
- PIC Volt Ampere Meter
- 1Hz - 2MHz Function Generator
- Accurate 0-500MHz RF Power Meter
- PIC Dual Temperature Meter
- BA1404 HI-FI Stereo FM Transmitter
- BH1417 Stereo PLL FM Transmitter
- 500mW FM / VHF Transmitter Amplifier / Booster
- 50mW BH1417 Stereo PLL FM Transmitter
- Phone FM Transmitter
- TV Transmitter with Audio
- 5 Watt FM Amplifier
- TDA7000 FM Receiver / TV Tuner / Aircraft Receiver
- NJM2035 HI-FI Stereo Encoder / Multiplexer
- USB IO Board

Downloads

iPOD - MP3 Player Charger - **Link**

Build your own LC Meter and start making your own coils and inductors. This LC Meter allows to measure incredibly small inductances making it perfect tool for making all types of RF coils. LC Meter can measure inductances starting from 10nH - 1000nH, 1uH - 1000uH, 1mH - 100mH and capacitances from 0.1pF up to 900nF. The circuit includes an auto ranging and "Zero Out" function to make sure the readings are as accurate as possible ... [more]