Color Organ	Eurotionality
Color Organ	Functionality
V2	A very cool 2 channel Color Organ kit! Lay back
Datasheet	and watch Leds dance on the music!
	5 green leds for the low frequencies (bass) and 5
an inter	blue leds for the high frequencies (treble)
C SERVICE 2 LAND	The kit is based on a quad amplifier (LM324).
	Just drive an audio signal of an analog output (e.g.
	soundcard) direct to the audio jack of the kit.
	Use an audio splitter if you have only one
	output. The cable can be both mono and stereo.
	The audio signal now is ready to travel through the
	opamps.
	The 2 first opamps of the LM324 are active filters
	that separate the low and high frequencies.
	The other 2 opamps are amplifying the separated
	signals separately. With two potentiometers you
	can adjust the amplification to the level you want
Technical Features	accordingly to the input audio signal strength.
Layers :2	accordingly to the input addio signal strength.
PCB Thickness : 1.6mm	Now the new signals trigger 2 nen transistors
Dimensions : 50 mm x 50 mm (2 inch x 2 inch)	Now the new signals trigger 2 npn transistors
Operating Voltage : 5 Vdc via usb cable or	(2N3904), one for the low frequencies
7.2 to 30 Vdc via external power supply or 9v bat. Operating current : 100 ma max	and one for the high frequencies. The transistors
Rel.date:12/12/12	drive the green and blue high brightness straw hat
	leds!
Circuit schematic	Part list
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treake in blue str freeke in blue str freeke in gib bright gib bright freeke str frees str frees str frees str	C1Ceramic Capacitor330nFC2,C3,C6,C7Ceramic Capacitor100nF
	C4,C5 Ceramic Capacitor 10nF
	C8 Electrolytic Capacitor 2,2uF
	C9 Electrolytic Capacitor 22uF
	C10 Smd 0603 Capacitor 100nF
	D1-D5 Straw hat LEDs Blue
	D6-D10 Straw hat LEDs Green
	D11 Diode 1N4001
	D12,D13 Diode 1N4148
	D143mm difused ledGreenU1Voltage Regulator7805
	U1Voltage Regulator7805Q1,Q2NPN Transistor3904
	R1 Resistor 1/4 watt 470
	R2 Resistor 1/4 watt 10
	R3 Resistor 1/4 watt 1,2k
	R4,R11 Resistor 1/4 watt 2,2k
	R5 Resistor 1/4 watt 1k
	R6Resistor 1/4 watt10k
	R7,R13 Resistor 1/4 watt 150
	R8 Resistor 1/4 watt 10
	R9,R10Resistors 1/4 watt5.6kB11Basistor 1/4 watt4.7k
	R11 Resistor 1/4 watt 4.7k
응표 에너에 모임	D12 Desistor 1/4 worth 101-
° 000 ₫ 2	R12Resistor 1/4 watt10kU2Ouad OnampI m324
	R12Resistor 1/4 watt10kU2Quad OpampLm324RV1,RV2jst 3pin cable Trimmer50k