Regulator

LM2596SX -3.3 : [LM2596S-3.3 IC Điều Chỉnh Giảm Áp 3.3V 3A TO-263-5 Điện áp vào: 4.5-40VDC, điện áp ra: 3.3VDC, 1 ngõ ra (thegioiic.com)](https://www.thegioiic.com/products/lm2596s-3-3-ic-dieu-chinh-giam-ap-3-3v-3a-to-263-5)

C1\_1 680uF – 16V : [Tụ Nhôm SMD 680uF 16V 10x10.5mm, Tụ hóa 680uF 16V, 20% (thegioiic.com)](https://www.thegioiic.com/products/tu-nhom-smd-680uf-16v-10x10-5mm)

C2\_2 220UF – 35V: [Tụ Nhôm SMD 220uF 35V 8x10.5mm, Tụ hóa 220uF 35V, 20% (thegioiic.com)](https://www.thegioiic.com/products/tu-nhom-smd-220uf-35v-8x10-5mm)

Cuộn cảm : [Cuộn Cảm Dán SMD 1280-330 33uH 4.2A, 20%, size 12 x 12 x 8mm (thegioiic.com)](https://www.thegioiic.com/products/cuon-cam-dan-smd-1280-330-33uh-4-2a)

Zener : [BZT52C5V1 Diode Zener 5.1V 500mW , DIODE ZENER 5.1V 500mW SOD123 (thegioiic.com)](https://www.thegioiic.com/products/bzt52c5v1-diode-zener-5-1v-500mw)

LED circuit

R 15ohm: [Điện Trở 15 Ohm 0603 5%, Code 150, 1/10W (thegioiic.com)](https://www.thegioiic.com/products/dien-tro-15-ohm-0603-5)

R 22k ohm: [Điện Trở 22 KOhm 0603 1%, Code 223, 1/10W (thegioiic.com)](https://www.thegioiic.com/products/dien-tro-22-kohm-0603-1)

LED : [LED Đỏ 5mm Chân Ngắn, Dài 20mm, lens đầu tròn Đỏ (thegioiic.com)](https://www.thegioiic.com/products/led-do-5mm-chan-ngan), [LED Vàng 5mm Chân Ngắn, Dài 20mm, lens đầu tròn vàng (thegioiic.com)](https://www.thegioiic.com/products/led-vang-5mm-chan-ngan) , [LED Xanh Lá 5mm Chân Ngắn, Dài 20mm, lens đầu tròn xanh lá (thegioiic.com)](https://www.thegioiic.com/products/led-xanh-la-5mm-chan-ngan)

SW: [EG1218 E-Switch | Switches | DigiKey](https://www.digikey.com/en/products/detail/e-switch/EG1218/101726?utm_campaign=buynow&utm_medium=aggregator&WT.z_cid=ref_findchips_standard&utm_source=findchips)

Tụ hóa : [Tụ Hoá 100uF 50V 8x12.5mm Xuyên Lỗ, 20%, size(DxL) 8x12.5mm (thegioiic.com)](https://www.thegioiic.com/products/tu-hoa-100uf-50v-8x12-5mm-xuyen-lo)

BJT : [BC547 Transistor NPN 45V 0.1A 3 Chân TO-92 Điện áp Vce max: 45V, dòng Ic max: 0.1A, công suất: 0.5W (thegioiic.cosm)](https://www.thegioiic.com/products/bc547-transistor-npn-45v-0-1a-3-chan-to-92)