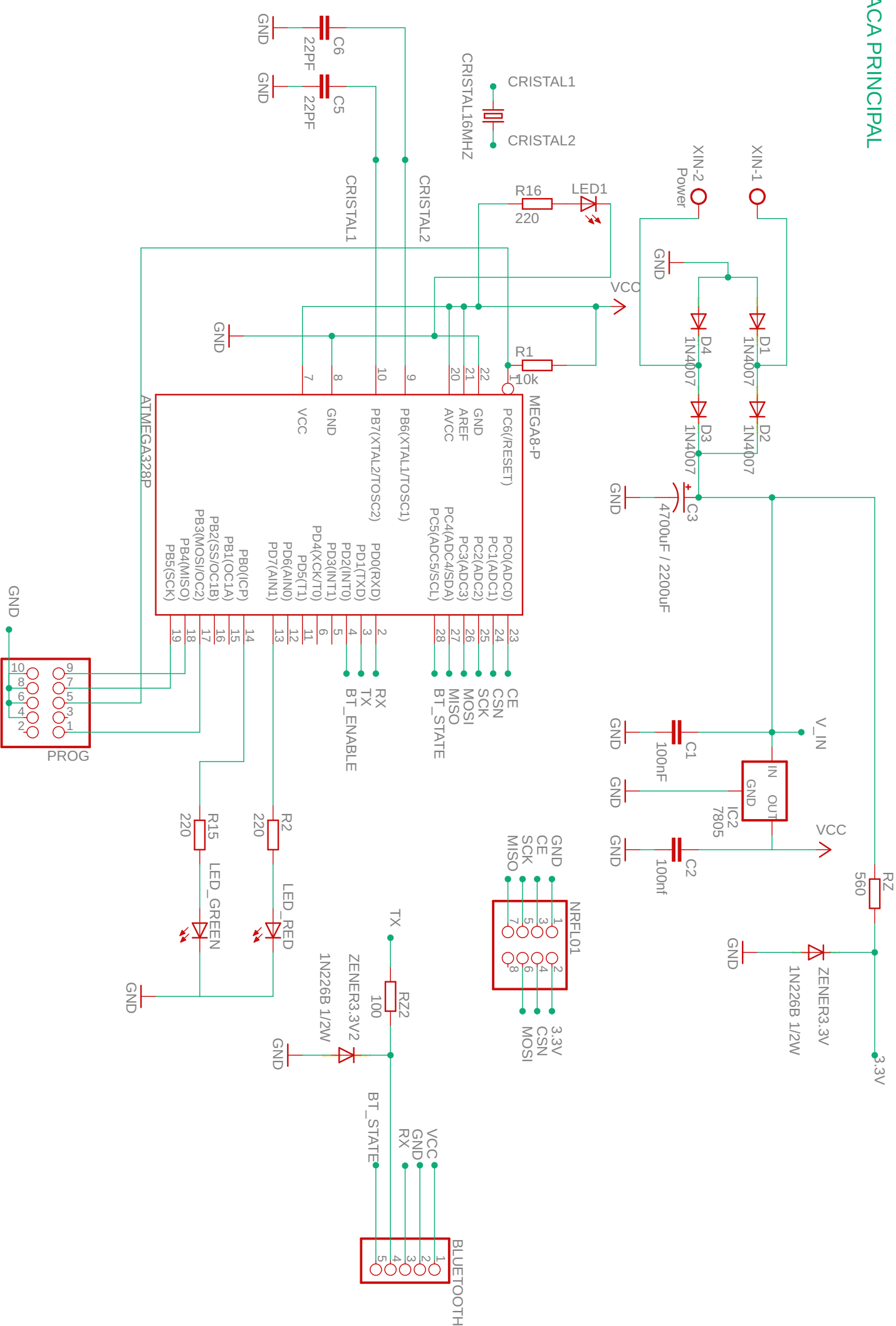
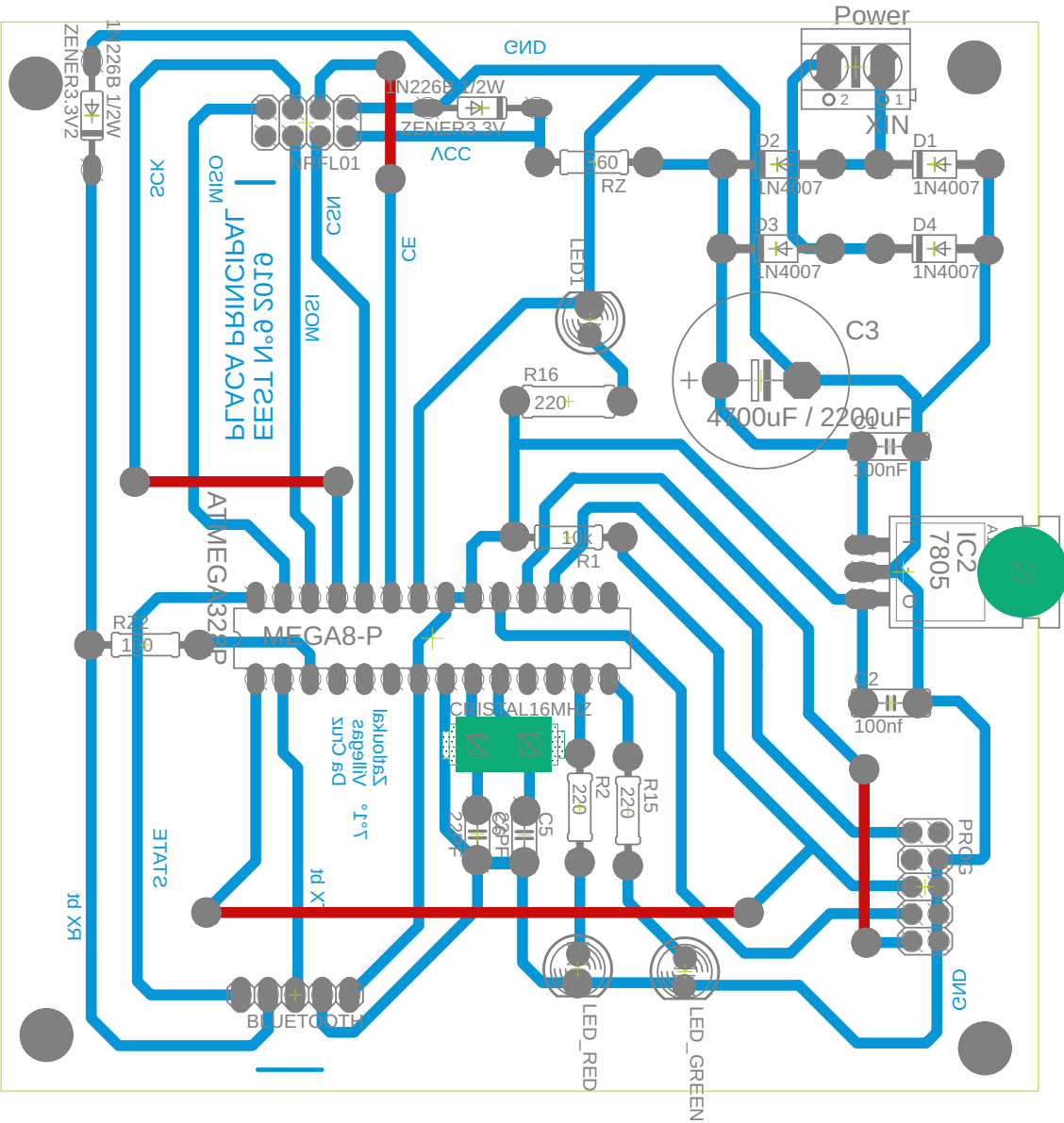


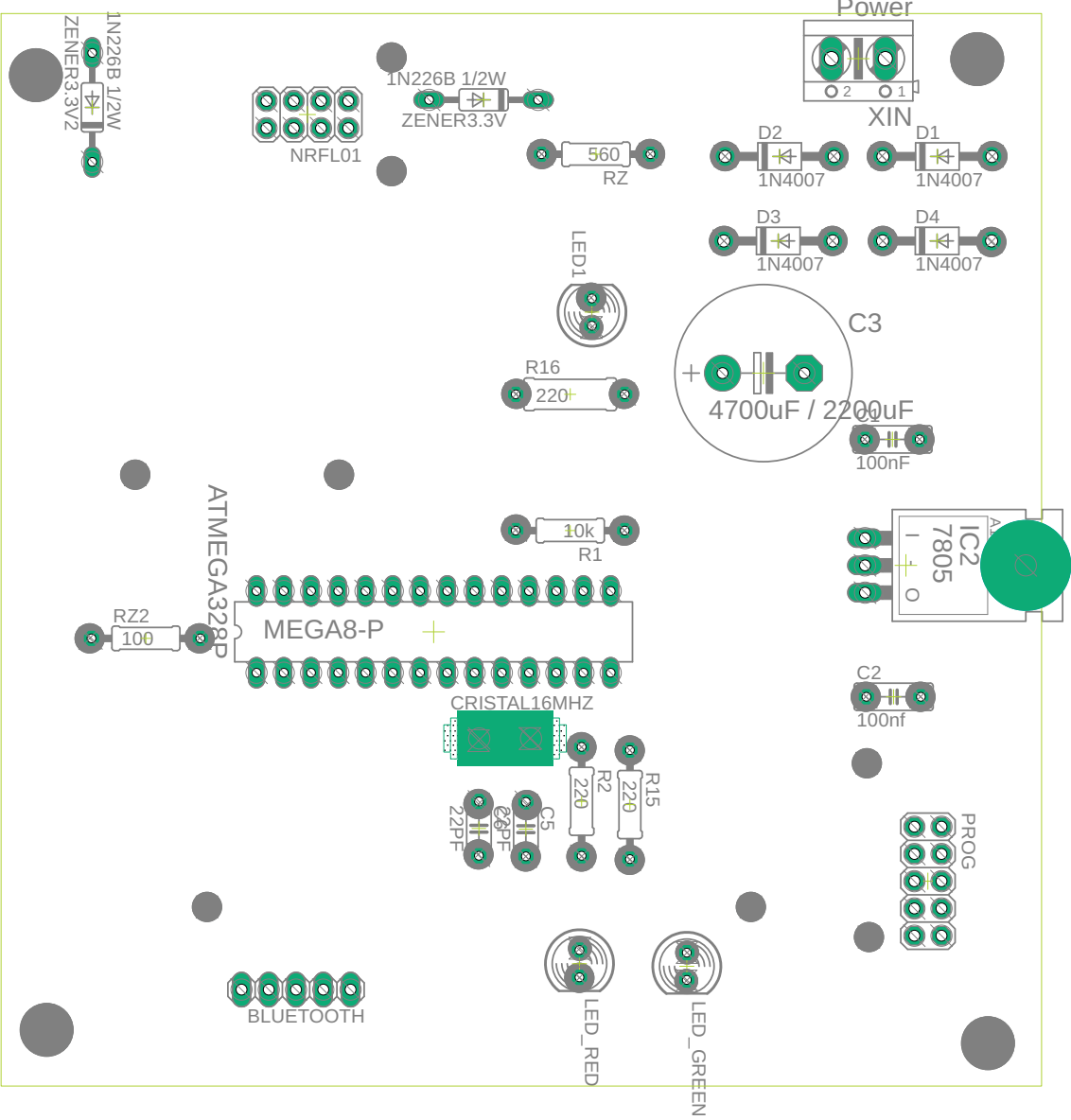
· Circuito impreso: Módulo principal

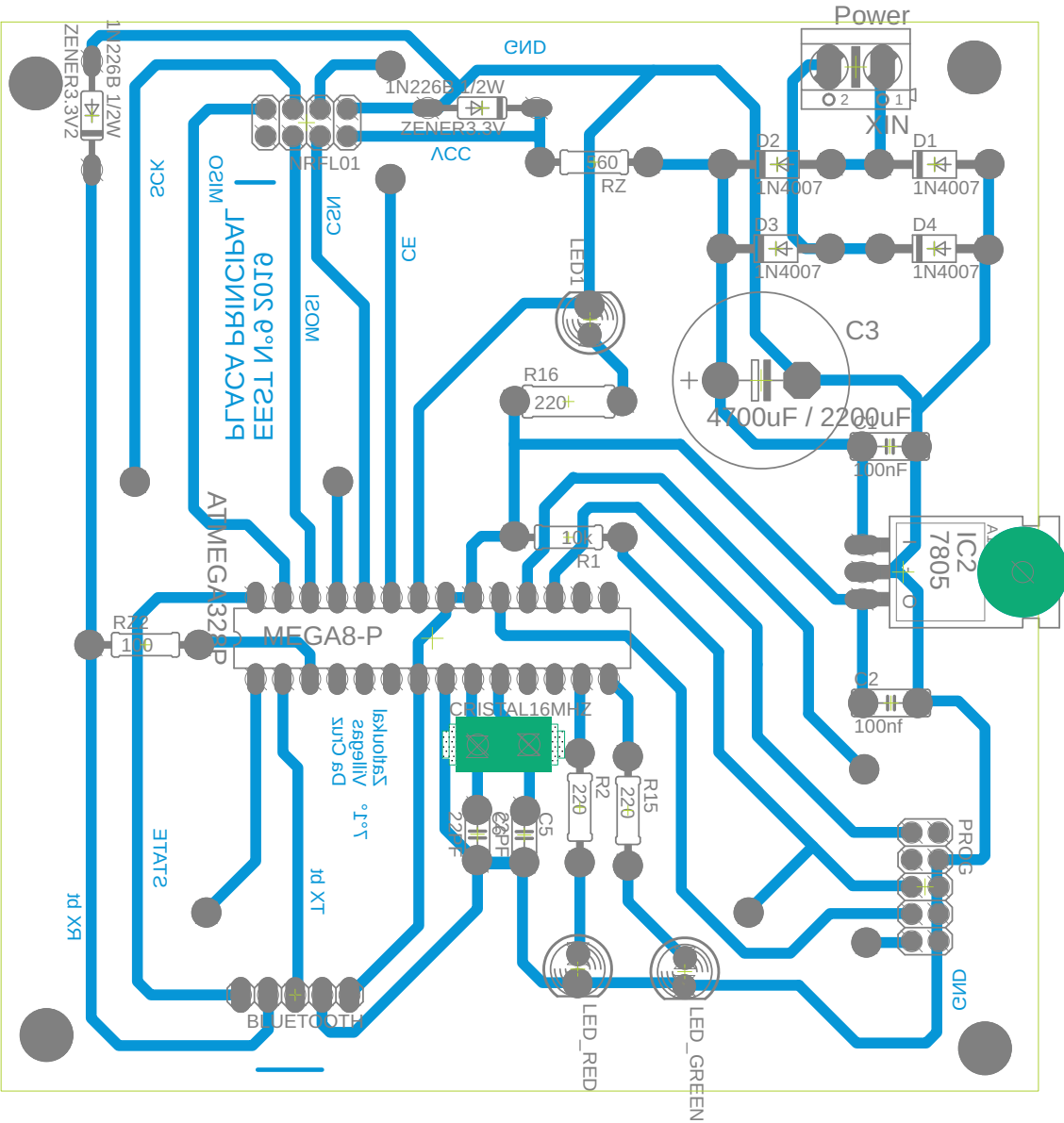
| Lista de componentes | Precio x unidad | Cantidad |
|---|-----------------|-----------|
| Modulo de radiofrecuencia emisor/receptor | \$ 100 | 1 |
| Zocalo de 14x2 | \$ 60 | 1 |
| Capacitores Ceramicos | \$ 2.50 | 4 |
| Leds | \$ 4.50 | 3 |
| Diodos | \$ 5 | 4 |
| Resistencias de 1/4 w | \$ 2.50 | 6 |
| Capacitor Electrolitico | \$ 10 | 1 |
| Cristal de 16Mhz | \$ 30 | 1 |
| Diodos zener de 1/2 w | \$ 6 | 2 |
| Regulador de tension | \$ 25 | 1 |
| Tira de 25 pinhead | \$ 15 | 1 |
| Borneras | \$ 15 | 1 |
| Plaqueta virgen 10x10 | \$ 90 | 1 |
| Módulo Bluetooth HC-05 | \$390 | 1 |
| Total | | \$ 803.50 |

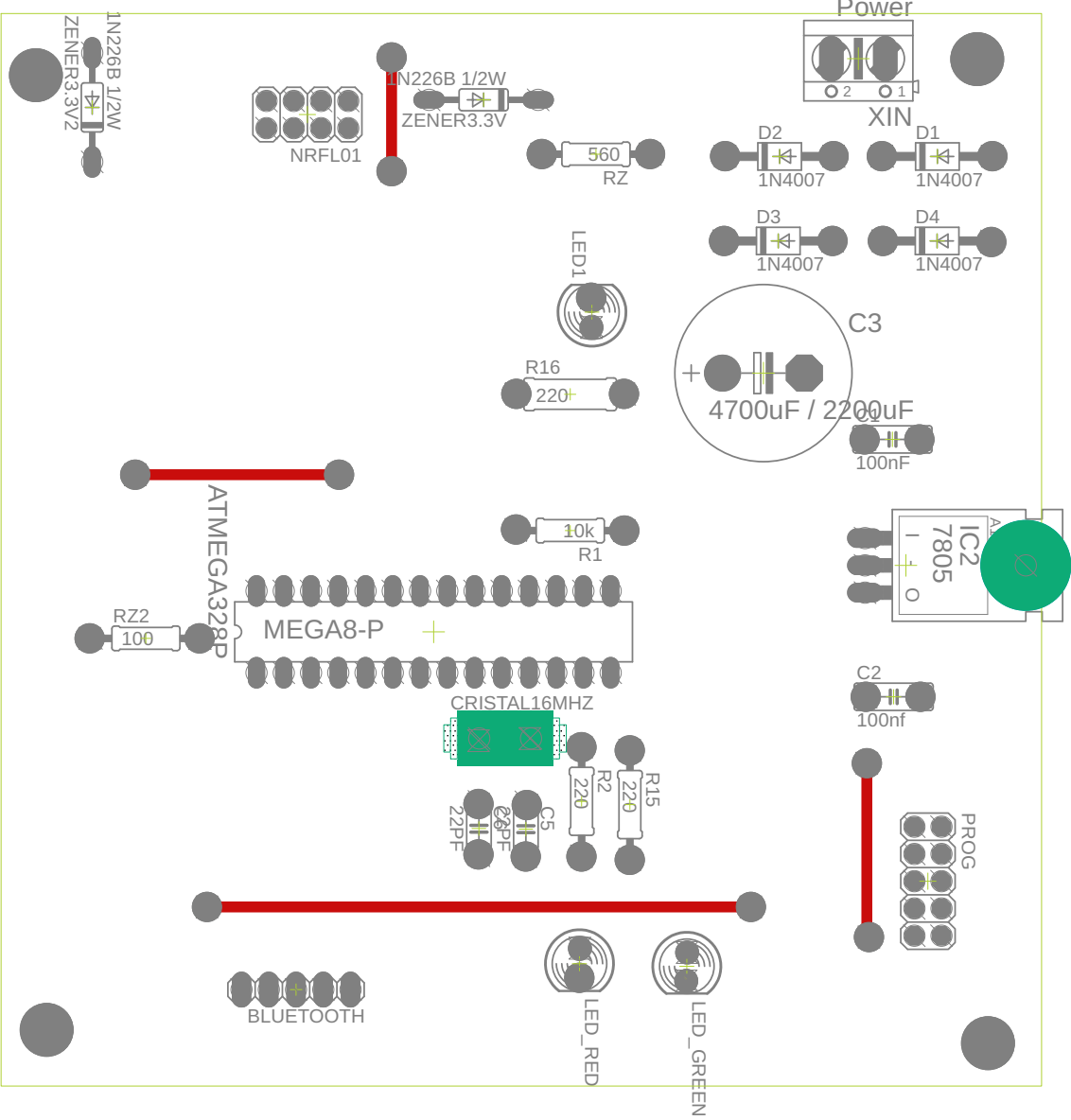
PLACA PRINCIPAL







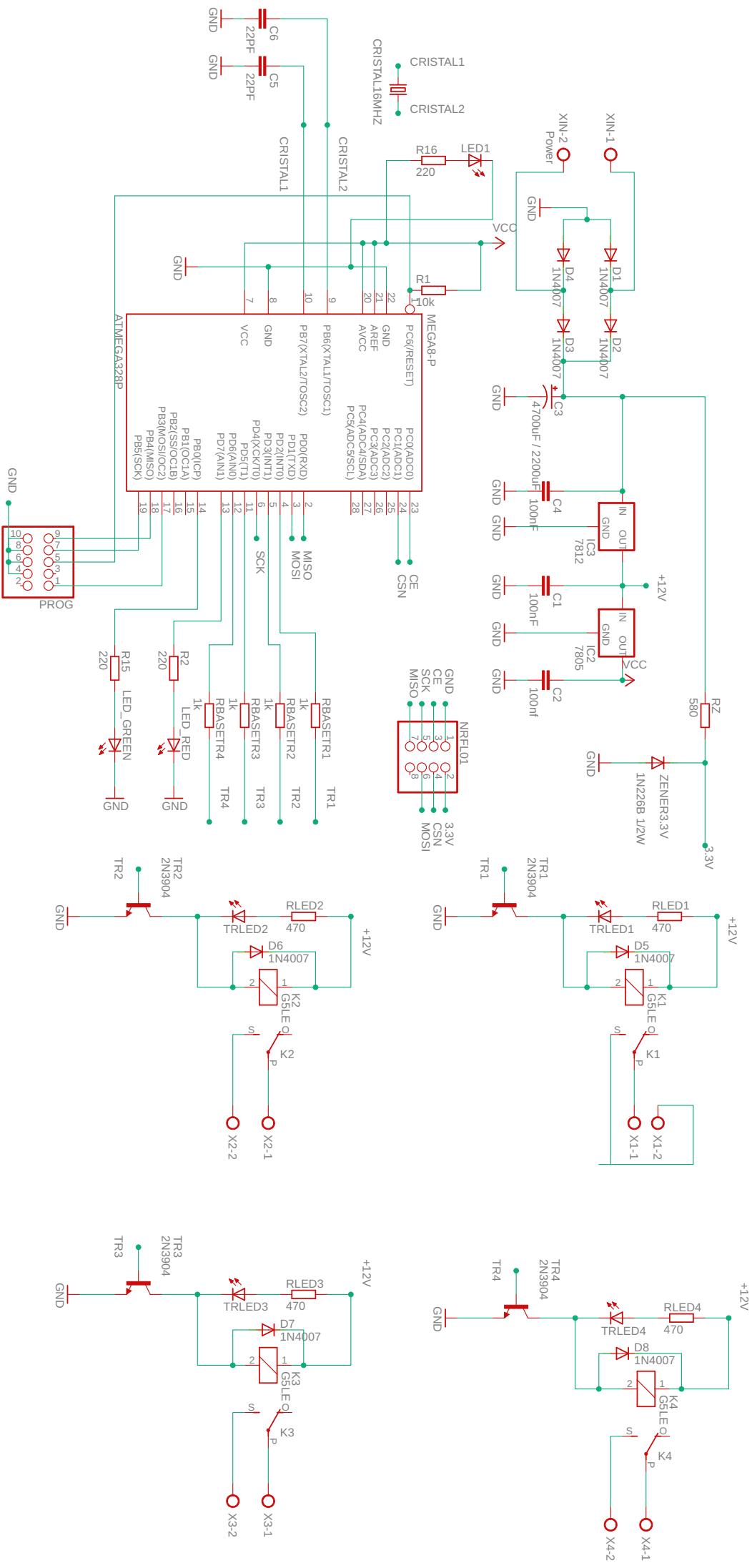


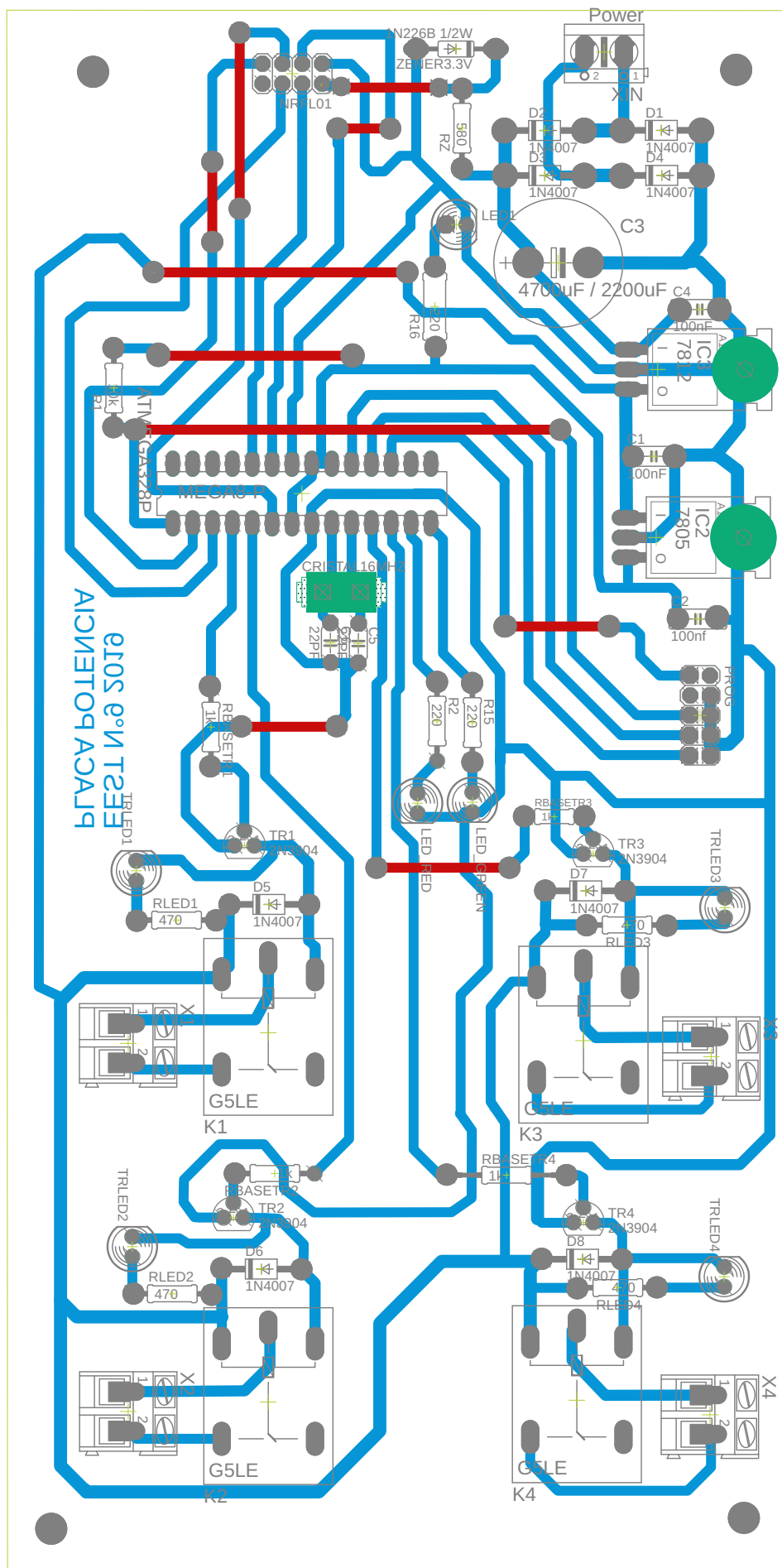


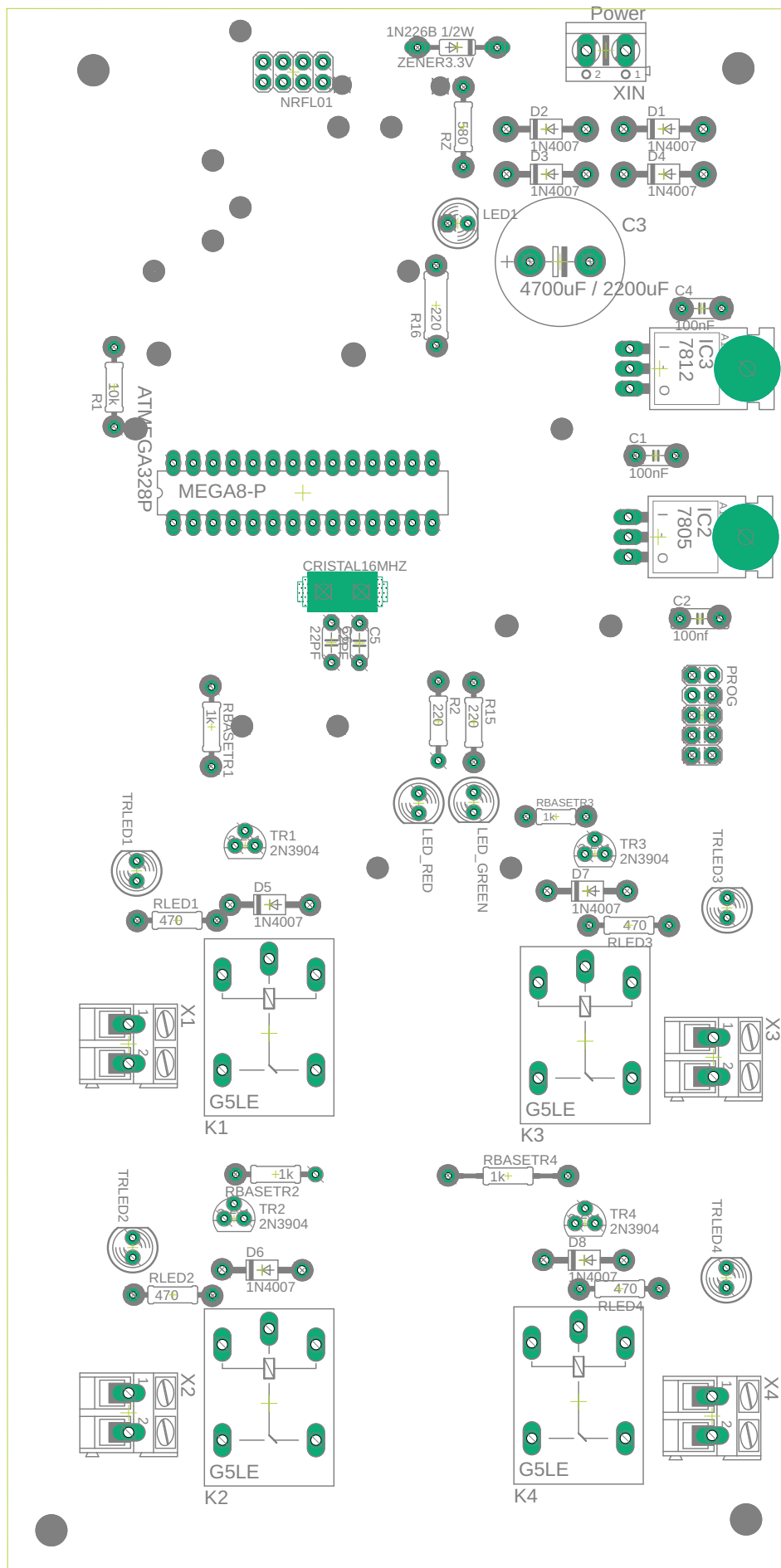
· Circuito impreso:

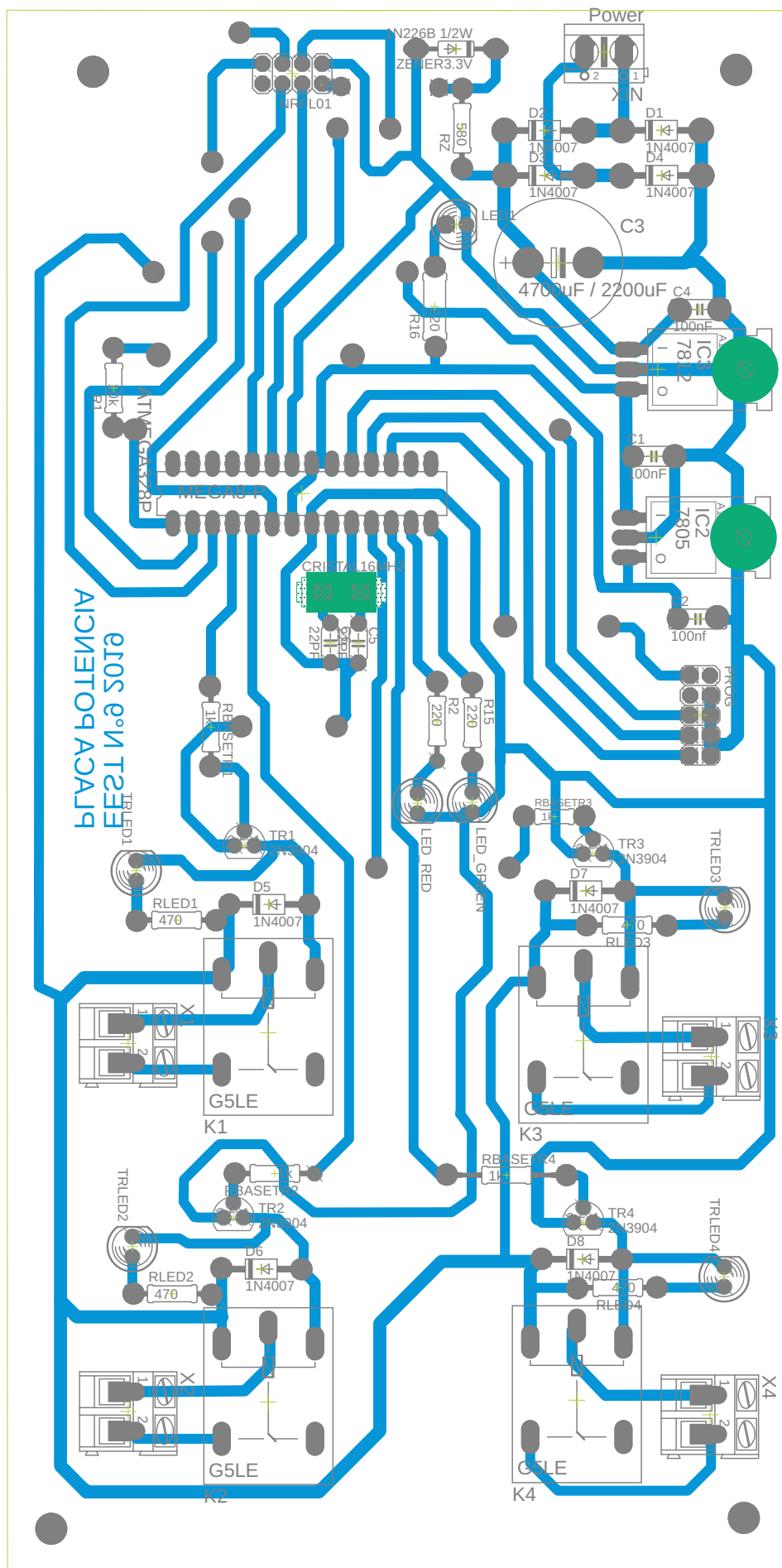
Módulo de mandos de potencia

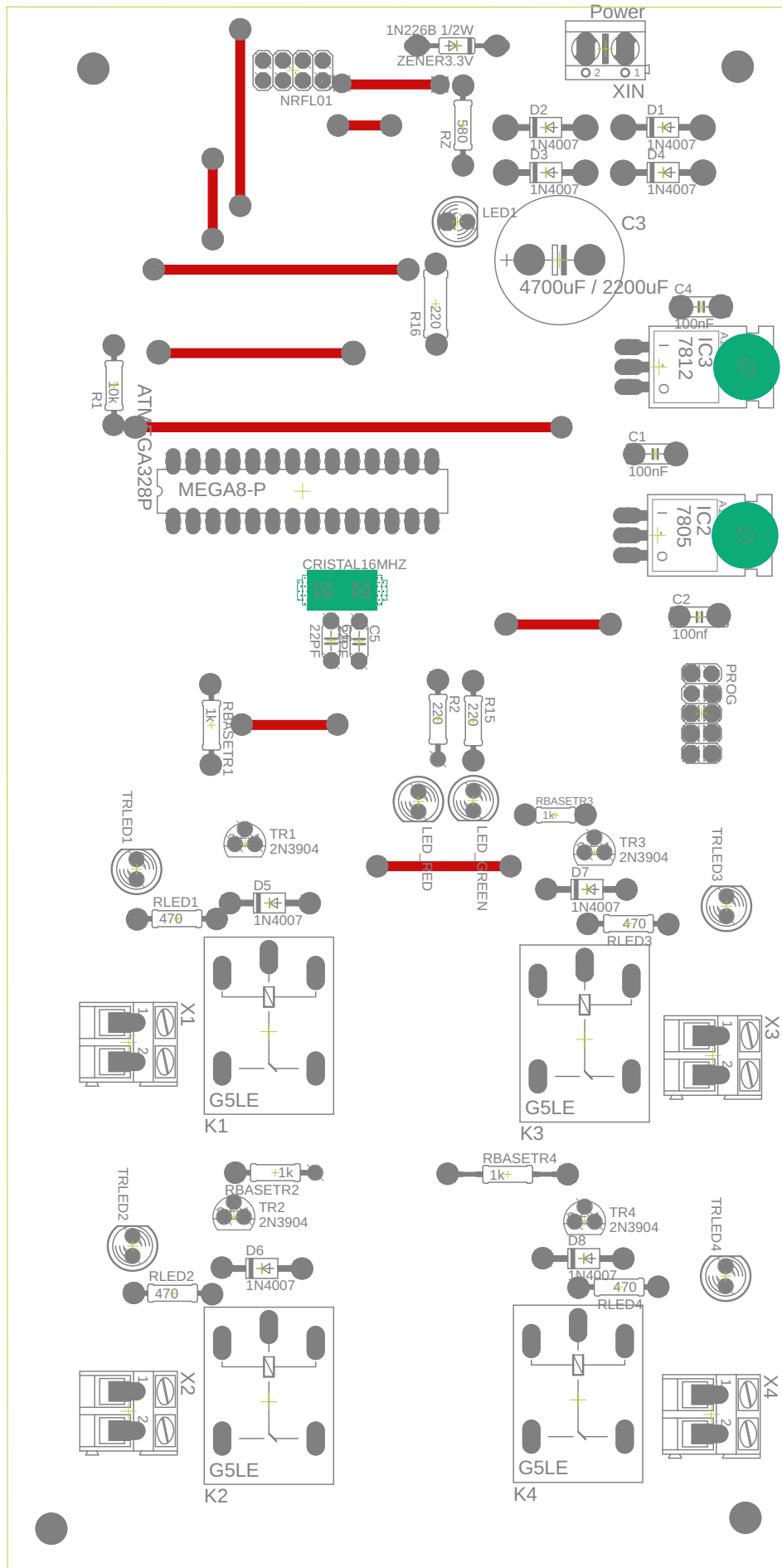
| Lista de componentes | Cantidad | Precio x unidad |
|---|----------|-----------------|
| Capacitores ceramicos | 5 | \$ 2.50 |
| Capacitor electrolico | 1 | \$ 10 |
| Resistencias de 1/4 w | 13 | \$ 1.50 |
| Cristal de 16Mhz | 1 | \$ 30 |
| Leds de 5mm | 7 | \$ 4.50 |
| Diodos | 8 | \$ 2.50 |
| Diodo zener de 1/2 w | 1 | \$ 6 |
| Borneras | 4 | \$ 15 |
| Reguladores de tensión | 5 | \$ 25 |
| Modulo de radiofrecuencia emisor/receptor | 1 | \$ 100 |
| Microcontrolador atmega 328p | 1 | \$ 250 |
| Relays | 1 | \$ 40 |
| Tira de 20 pinhead | 1 | \$ 15 |
| Zocalo 14x2 | 1 | \$ 60 |
| Plaqueta virgen de 20x10 | 1 | \$ 150 |
| Transistores | 4 | \$ 40 |
| Total | | \$ 1,089.50 |











· Circuito impreso: Módulo de mandos motrices

| Lista de componentes | Cantidad | Precio x unidad |
|---|----------|-----------------|
| Capacitores ceramicos | 3 | \$ 2.50 |
| Resistencias de 1/4 w | 7 | \$ 1.50 |
| Leds de 5mm | 3 | \$ 4.50 |
| Diodos zener de 1/2 w | 2 | \$ 6 |
| Cristal de 16Mhz | 1 | \$ 30 |
| Microcontrolador Atmega 328p | 1 | \$ 250 |
| Modulo de radiofrecuencia emisor/receptor | 1 | \$ 100 |
| Zocalo 14x2 | 1 | \$ 60 |
| ULN2803 | 1 | \$ 60 |
| Zocalo 18x2 | 1 | \$ 60 |
| Tira de 32 pinhead | 1 | \$ 15 |
| Borneras | 1 | \$ 15 |
| Transistor | 1 | \$ 40 |
| Plaqueta virgen de 10x10 | 1 | \$ 90.00 |
| Total | | \$ 763.50 |

PLACA MOTRIZ

