Reflow Oven Checklist

STM32F405RXT

|  |  |  |
| --- | --- | --- |
| Component | Manufacturer Part Number | Price ($) |
| Microcontroller | [STM32F405RGT6](http://www.digikey.ca/product-detail/en/STM32F405RGT6/497-11767-ND/2754208) | 13.87 |
| LCD (with backlight) | 153-1113-ND | 5.33 |
| Solid State Relay | PR26MF11NIPF | [0.68](http://www.digikey.ca/product-detail/en/PR26MF11NIPF/425-2359-2-ND/720481) |
| Fuse | F3665CT-ND | 1.55 |
| Crystal (dongle) | ---- | ---- |
| K-type thermocouple | ---- | ---- |
| Buzzer (same as dongle) | ---- | ---- |
| Buttons/switches (dongle) | ---- | ---- |
| Cold junction compensation | [MAX6675ISA+T](http://www.digikey.ca/product-detail/en/MAX6675ISA%2BT/MAX6675ISA%2BTCT-ND/1859231) | 17.36 |
| Resistors (same values) | ---- | ---- |
| Transistor (dongle) | ---- | ---- |
| Rectifier (3.3v going into MC) |  |  |
| Decoupling Capacitor |  |  |
| LED | Already have | ---- |
| Transformer (factor of 36.36) |  |  |

Transformer to bring voltage down to 3.3V (factor of 36.36).

---- : already have or, use the same as dongle.