CN1 +5V

PWR
GNDBREAK
GND
GND

+5V
C1
+ 1000uF
GND

+5V
GND

U$1

| Gnd | Vout |
| Vin | Vu |
| Vb | IF- |
| nR | IF+ |
| p5 / SPI mosi | Ethernet RD- |
| p6 / SPI miso | Ethernet RD+ |
| p7 / SPI sck | Ethernet TD- |
| p8 | Ethernet TD+ |
| p9 / Serial tx / I2C sda | USB D- |
| p10 / Serial rx / I2C scl | USB D+ |
| p11 / SPI mosi | p30 / CAN rd |
| p12 / SPI miso | p29 / CAN td |
| p13 / SPI SCK / Serial tx | p28 / I2C sda / Serial tx |
| p14 / Serial rx | p27 / I2C scl / Serial rx |
| p15 / AnalogIn | p26 / PwmOut |
| p16 / AnalogIn | p25 / PwmOut |
| p17 / AnalogIn | p24 / PwmOut |
| p18 / AnalogIn / AnalogOut | p23 / PwmOut |
| p19 / AnalogIn | p22 / PwmOut |
| p20 / AnalogIn | p21 / PwmOut |

mbed NXP LPC1768 Microcontroller

+3V3

J1
| SCL | 4 |
| SDA | 3 |
| GND | 2 |
| VCC | 1 |

+5V

MOSI

Blue - SCL
Green - SDA
Yellow - GND
Orange - +5V

J2
| SCL | 4 |
| SDA | 3 |
| GND | 2 |
| VCC | 1 |

GND

+3V3
+5V

R1 1k
R2 1k

MOSI

BSS138 Q1

470
R3

WS2812B
DI  GND DO  VDD

WS2812B
DI  GND DO  VDD

C2 100n
C3 100n

GND
GND

There are a total of 16 WS2812 LEDs in
the NeoPixel ring but only 2 are shown here.

TITLE: Pumpkin

Design by: Adam Green

REV:
1.0

Date: 10/9/17 1:54 PM

Sheet: 1/1