## Recepteur DTMF

GND

MIC1
Recepteur de fréquences sonore

Récepteur DTMF
HT9170D

C1 0.1u
R2 100k
10k R1
R3 4k
3V3

| 1 | VP |
| 2 | VN |
| 3 | GS |
| 4 | VREF |
| 5 | INH |
| 6 | PWDN |
| 7 | X1 |
| 8 | X2 |
| 18 | VDD |

| RT/GT | 17 |
| EST | 16 |
| DV | 15 |
| D3 | 14 |
| D2 | 13 |
| D1 | 12 |
| D0 | 11 |
| OE | 10 |
| VSS | 9 |

300k R4
C4 0.1u
3V3

GND

X1 16.384MHz

C3 20p
GND

C2 20p
GND

VCC

DTMF DTMF DTMF DTMF DTMF

GND

## Emission Infrarouge

VCC

R6 1k

LED1 LED-0603_R

MAT1.1

Driver

| 1 | IN |
| 2 | GND |
| 3 | VDD |

| OUT | 5 |
| GND | 4 |

GND   VCC   GND

R5 1k
Q1

GND

## Commande moteurs

VCC   VCC

D1 1N4148   D2 1N4148

MOTEUR2   MOTEUR1

Microcontroleur

PWM1
PWM2

Driver

| 1 | InA |
| 2 | GND |
| 3 | InB |

| OutA | 5 |
| OutB | 4 |

VCC

Q3   Q2

GND   GND   GND