+5V
R
R2
LED
D1

+5V
10K
R1
MCLR
SW1
rst
1
2

CONN_10
P1
10 RX
9 TX
8
7
6
5
4
3
2
1

MCLR 1 −MCLR/VPP
2 RA0/AN0
3 RA1/AN1
4 RA2/AN2/Vref−/CVRef
5 RA3/AN3/Vref+
6 RA4/TOCKL_/C1OUT
7 RA5/AN4/SS_/C2OUT
8 RE0/AN5/RD
9 RE1/AN6/WR
PE2 10 RE2/AN7/CS_
11 VDD
12 VSS
13 OSC1/CLKI
14 OSC2/CLKO
15 RC0/T1OSO/T1CK1
16 RC1/T1OSI/CCP2
17 RC2/CCP1_
18 RC3/SCK/SCL
23 RC4/SDI/SDA
24 RC5/SDO
TX 25 RC6/TX/CK
RX 26 RC7/RX/DT

16F877A
U1

RB7/PGD D7/PGD
RB6/PGC D6/PGC
RB5 38
RB4 37
RB3/PGM 36
RB2 35
RB1 34
RB0/INT 33 INT

VDD 32
VSS 31

RD7/SPP7 30
RD6/SPP6 29
RD5/PSP5 28
RD4/PSP4 27
RD3/PSP3 22
RD2/PSP2 21
RD1/PSP1 20
RD0/PSP0_ 19

CONN_10
P3
+5V 1
2
3 D7/PGD
4 D6/PGC
5
6
7
8
9
10 INT

+5V 0.1uF
C4

CONN_10
P4
INT 1
2
3
4
5
6
7
8
9
10

C1 22pF
C2 22pF
X1 20Mhz
0.1uF
C3
+5V

CONN_10
P2
10 PE2
9 MCLR
8
7
6
5
4
3
2
1

MCLR 1
+5V 2
3
D7/PGD 4
D6/PGC 5
6
ICSP
P6

TX D2 LED
RX D3 LED
R
R3

+5V
RX
TX
P5
CONN_7
1
2
3
4
5
6
7

MCLR 1 JP1 2
JUMPER

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