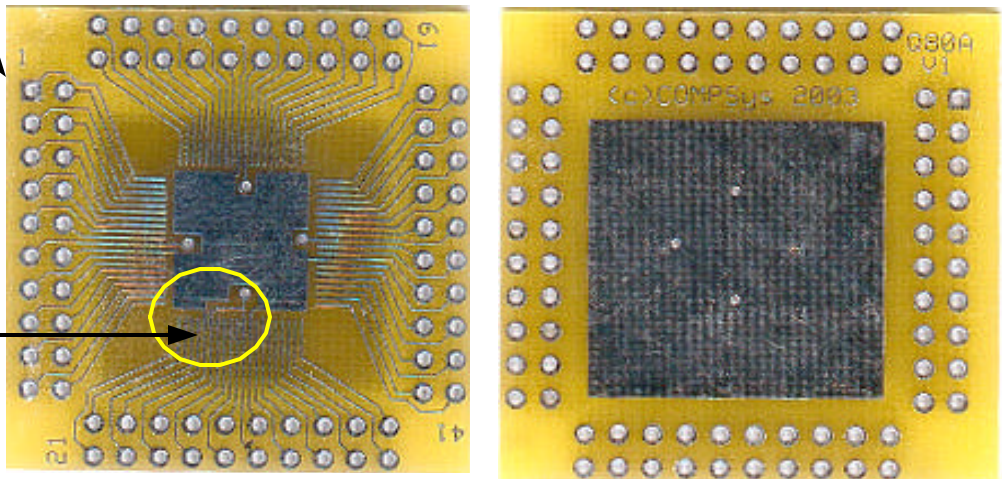
PIC18Fxx20 Carrier/Controller PCB

CARRIER BOARD ONLY

PIN 1

TOP

BOTTOM

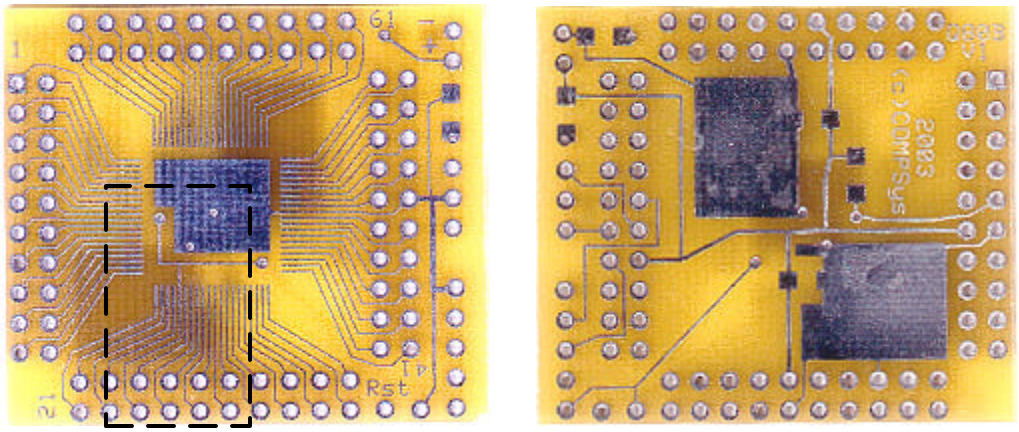


Note: As required per Microchip's data sheet, AVdd (Pin25) is connected to Vdd and AVss (Pin26) is connected to Vss

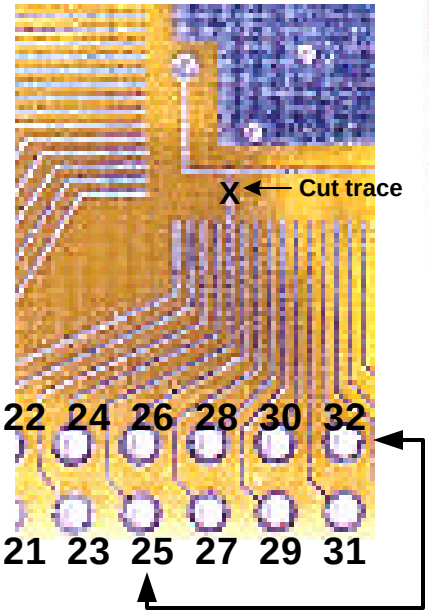
QFP80AB PIC18Fxx20 Carrier board

CONTROLLER BOARD

PIN 1



Magnified inset



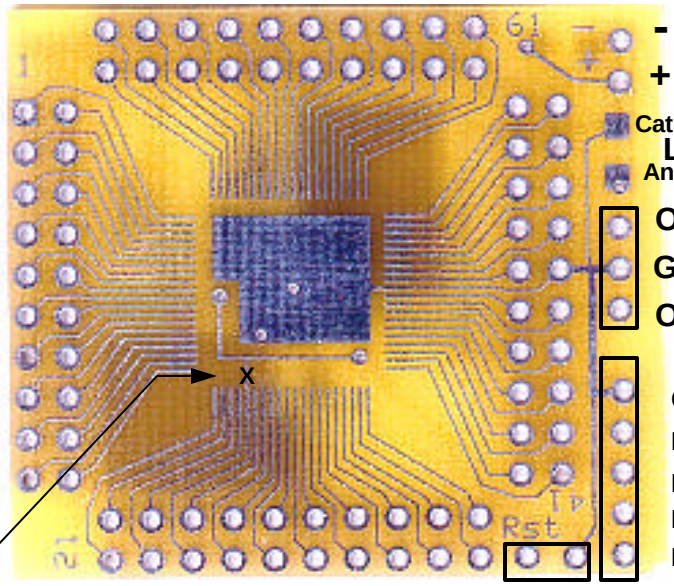
QFP80CB PIC18Fxx20 Controller board

Important note: The Q80B V1 version pcb requires one circuit correction. As delivered, AVdd (Pin25) is connected to the MCLR pin (Pin9) whereas it should be connected to Vdd (5v+). To fix this cut the small trace as shown on the left marked with an "X" on the TOP side of the pcb. Then using a small piece of wire connect AVdd (Pin25) to any Vdd pin, such as Pin32.

QFP80 CONTROLLER BOARD

DO NOT REVERSE POLARITY!

TOP SIDE



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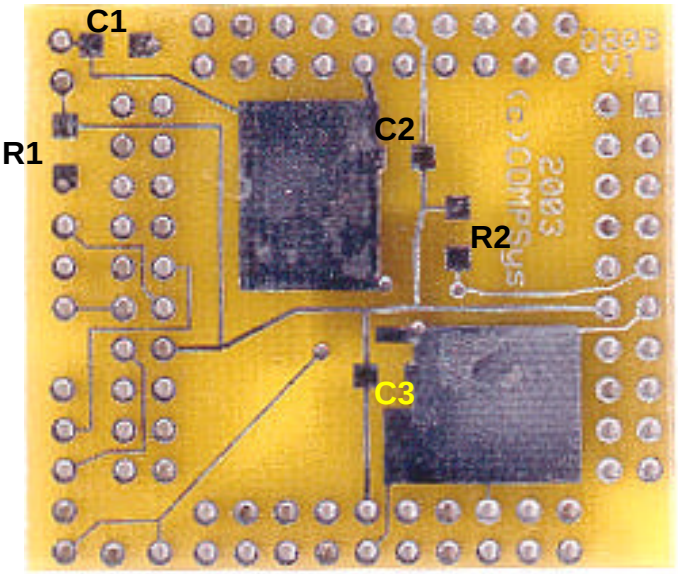
BOTTOM SIDE

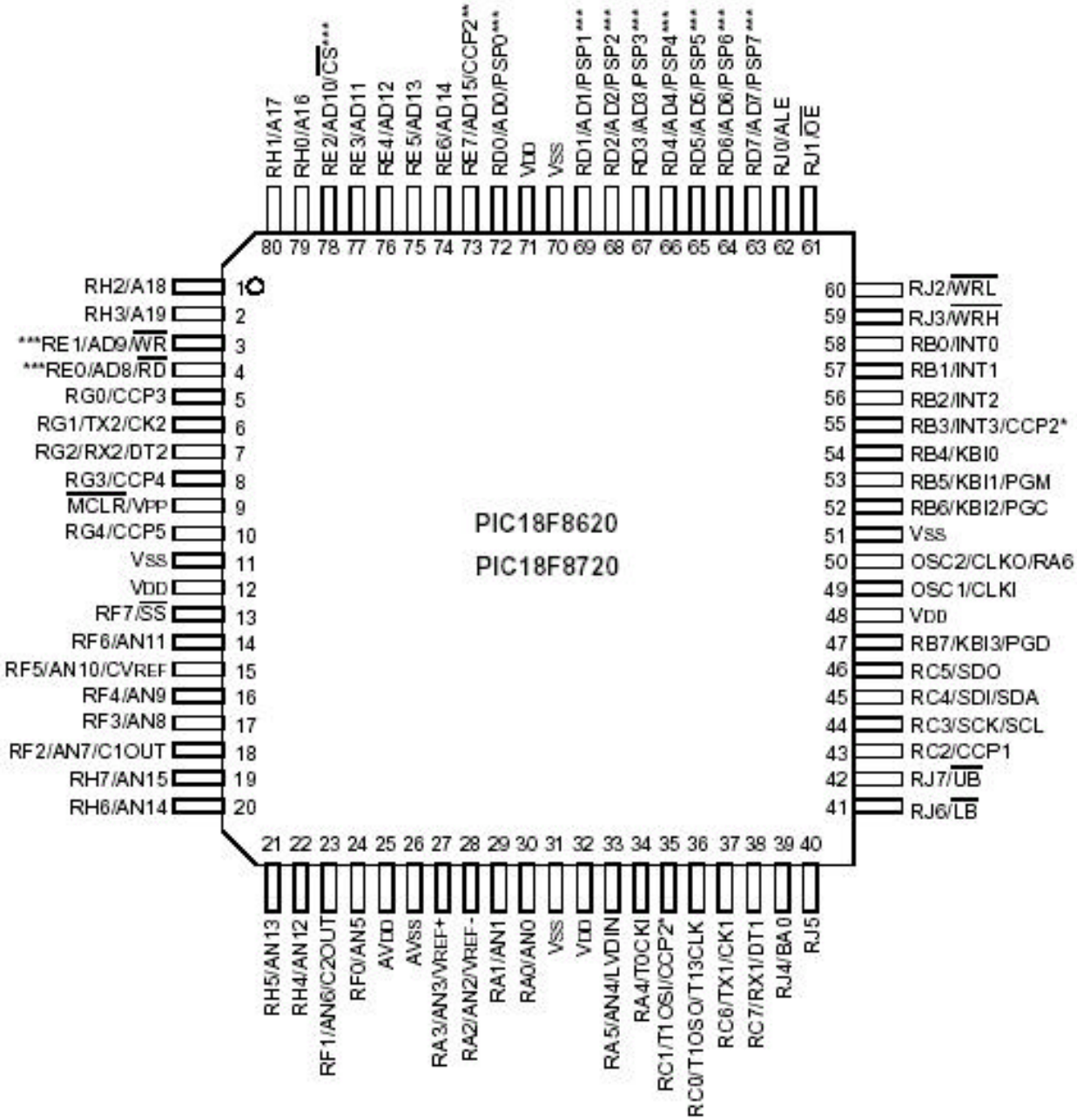
C1-C3 decoupling caps (0.1uf or 1uf)

R1 LED limiting resistor (220 to 470 ohms)

R2 MCLR pullup resistor (1 to 4.7k)

Values in parenthesis are suggested values. Use whatever values your design circuit design requires.




PIC18F8620
PIC18F8720
1 RH2/A18
2 RH3/A19
3 ***RE1/AD9/WR
4 ***RE0/AD8/RD
5 RG0/CCP3
6 RG1/TX2/CK2
7 RG2/RX2/DT2
8 RG3/CCP4
9 MCLR/VPP
10 RG4/CCP5
11 VSS
12 VDD
13 RF7/SS
14 RF6/AN11
15 RF5/AN10/CVREF
16 RF4/AN9
17 RF3/AN8
18 RF2/AN7/C1OUT
19 RH7/AN15
20 RH6/AN14
21 RH5/AN13
22 RH4/AN12
23 RF1/AN6/C2OUT
24 RF0/AN5
25 AVDD
26 AVSS
27 RA3/AN3/VREF+
28 RA2/AN2/VREF-
29 RA1/AN1
30 RA0/AN0
31 VSS
32 VDD
33 RA5/AN4/LVDIN
34 RA4/T0CKI
35 RC1/T1OSI/CCP2*
36 RC0/T1OSO/T13CLK
37 RC6/TX1/CK1
38 RC7/RX1/DT1
39 RJ4/BA0
40 RJ5
41 RJ6/LB
42 RJ7/UB
43 RC2/CCP1
44 RC3/SCK/SCL
45 RC4/SDI/SDA
46 RC5/SDO
47 RB7/KBI3/PGD
48 VDD
49 OSC1/CLKI
50 OSC2/CLKO/RA6
51 VSS
52 RB6/KBI2/PGC
53 RB5/KBI1/PGM
54 RB4/KBI0
55 RB3/INT3/CCP2*
56 RB2/INT2
57 RB1/INT1
58 RB0/INT0
59 RJ3/WRH
60 RJ2/WRL
61 RJ1/OE
62 RJ0/ALE
63 RD7/AD7/PSP7***
64 RD6/AD6/PSP6***
65 RD5/AD5/PSP5***
66 RD4/AD4/PSP4***
67 RD3/AD3/PSP3***
68 RD2/AD2/PSP2***
69 RD1/AD1/PSP1***
70 VSS
71 VDD
72 RD0/AD0/PSP0***
73 RE7/AD15/CCP2**
74 RE6/AD14
75 RE5/AD13
76 RE4/AD12
77 RE3/AD11
78 RE2/AD10/CS***
79 RH0/A16
80 RH1/A17