16F877 & 18F45Kxx FAMILY - PINOUT & FUNCTIONS COMPARISON

pin No	16F877A [DIL40]	18F45K22 [DIL40]	18F45K40 [DIL40]	18F45K50 [DIL40]	18F45/46K80 [DIL40]
1	RE3/MCLR/VPP	RE3/MCLR/VPP	RE3/MCLR/VPP	RE3/MCLR/VPP	RE3/MCLR/VPP
2	RA0/AN0/ULPWU/	RA0/AN0/C1IN0-/C2IN0-	RA0/AN0/C1IN0-/C2IN0-	RA0/AN0/C1IN0-/C2IN0-	RA0/CVREF/AN0/ULPWU
3	RA1/AN1/C12IN1-	RA1/AN1/C12IN1-	RA1/AN1/C1IN1-/C2IN1-	RA1/AN1/C1IN1-/C2IN1-	RA1/AN1/C1INC
4	RA2/AN2/VREF-/CVREF/C2IN+	RA2/AN2/C2IN+/VREF-	RA2/AN2/C1IN0+/C2IN0+	RA2/AN2/C2IN+	RA2/VREF-/AN2/C2INC
5	RA3/AN3/VREF+/C1IN+	RA3/AN3/C1IN+/VREF+	RA3/AN3/C1IN1+	RA3/AN3/C1IN+	RA3/VREF+/AN3
6	RA4/T0CKI/C1OUT	RA4/SRQ/C1OUT/T0CKI	RA4/AN4/T0CKI	RA4/SRQ/C1OUT/T0CKI	VDDCORE/VCAP
7	RA5/AN4/SS/C2OUT	RA5/SRNQ/AN4/C2OUT	RA5/AN5	RA5/SRNQ/AN4/C2OUT	RA5/AN4/HLVDIN/T1CKI/SS
8	RE0/AN5	RE0/AN5/P3A	RE0	RE0/AN5	RE0/AN5/RD
9	RE1/AN6	RE1/AN6/P3B	RE1	RE1/AN6	RE1/AN6/C1OUT/WR
10	RE2/AN7	RE2/AN7	RE2	RE2/AN7	RE2/AN7/C2OUT/CS
11	**VDD**	**VDD**	**VDD**	**VDD**	**VDD**
12	**VSS**	**VSS**	**VSS**	**VSS**	**VSS**
13	RA7/OSC1/CLKIN	RA7/OSC1/CLKIN	RA7/AN7/OSC1/CLKIN	RA7/OSC1/CLKIN	RA7/OSC1/CLKIN
14	RA6/OSC2/CLKOUT	RA6/OSC2/CLKOUT	RA6/AN6/OSC2/CLKOUT	RA6/OSC2/CLKOUT	RA6/OSC2/CLKOUT
15	RC0/T1OSO/T1CKI	RC0/SOSCO/T1CKI/T3CKI/T3G/P2B	RC0/T1CKI/T3CKI/T3G	RC0/SOSCO/T1CKI/T3CKI/T3G	RC0/SOSCO/SCLKI
16	RC1/T1OSI/CCP2	RC1/CCP2/P2A/SOSCI	RC1/CCP2	RC1/SOSCI	RC1/SOSCI
17	RC2/P1A/CCP1	RC2/AN14/CCP1/P1A/TC5CKI	RC2/T5CKI	RC2/AN14/CCP1/P1A	RC2/T1G/CCP2
18	RC3/SCK/SCL	RC3/AN15/SCK1/SCL1	RC3/T2IN/SCK1/SCL1	VUSB3V3	RC3/REFO/SCL/SCK
19	RD0	RD0/AN20/SCL2/SCK2	RD0	RD0	RD0/C1INA/PSP0
20	RD1	RD1/AN21/SDI2/SDA2	RD1	RD1	RD1/C1INB/PSP1
21	RD2	RD2/AN22/P2B	RD2	RD2	RD2/C2INA/PSP2
22	RD3	RD3/AN3/P2C/SS2	RD3	RD3	RD3/C2INB/CTMUI/PSP3
23	RC4/SDI/SDA	RC4/AN16/SDI1/SDA1	RC4/SDI1/SDA1	USB D-	RC4/SDA/SDI
24	RC5/SDO	RC5/AN17/SDO1	RC5/T4IN	USB D+	RC5/SDO
25	RC6/TX/CK	RC6/AN18/TX1/CK1	RC6/CK1	RC6/TX/CK	RC6/CANTX/TX1/CK1/CCP3
26	RC7/RX/DT	RC7/AN19/RX1/DT1	RC7/RX1/DT1	RC7/RX/DT	RC7/CANRX/RX1/DT1/CCP4
27	RD4	RD4/AN24/P2D/SD02	RD4	RD4	RD4/ECCP1/P1A/PSP4
28	RD5/P1B	RD5/AN285/P1B	RD5	RD5	RD5/P1B/PSP5
29	RD6/P1C	RD6/AN26/P1C/TX2/CK2	RD6	RD6	RD6/TX2/CK2/P1C/PSP6
30	RD7/P1D	RD7/AN27/P1D/RX2/DT2	RD7	RD7	RD7/RX2/DT2/P1D/PSP7
31	**VSS**	**VSS**	**VSS**	**VSS**	**VSS**
32	**VDD**	**VDD**	**VDD**	**VDD**	**VDD**
33	RB0/AN12/INT	RB0/AN12/SRI/INT0	RB0/ANB0/C2IN1+	RB0/AN12/SDA/SDI/INT0	RB0/AN10/FLT0/INT0
34	RB1/AN10/C12IN3-	RB1/AN10/C12IN3-/INT1	RB1/ANB1/SCK2/SCL2	RB1/AN10/SCK/SCL/INT1	RB1/AN8/CTDIN/INT1
35	RB2/AN8	RB2/AN8/INT2	RB2/ANB2/SDI2/SDA2	RB2/AN8/INT2	RB2/CANTX/CTED1/INT2
36	RB3/AN9/PGM/C12IN2-	RB3/AN9/C12IN2-/CCP2/P2A	RB3/ANB3/C1IN2-/C2IN2-	RB3/AN9/SDO	RB3/CANRX/CTED2/INT3
37	RB4/AN11	RB4/AN11/T5G/IOC	RB4/ANB4/T5G	RB4/AN11	RB4/AN9/CTPLS/KBI0
38	RB5/AN13/T1G	RB5/AN13/CCP/P3A/T1G/T3CKI	RB5/ANB5/T1G	RB5/AN13/T1G/T3CKI	RB5/T0CKI/T3CKI/CCP5/KBI1
39	RB6/ICSPCLK	RB6/ICSPCLK	RB6/ANB6/ICSPCLK	RB6/ICSPCLK	RB6/PGC/KBI2
40	RB7/ICSPDAT	RB7/ICSPDAT	RB7/ANB7/ICSPDAT	RB7/ICSPDAT	RB7/PGD/T3G/KBI3