

您設計產品時的好朋友！



Forum: [8-bit PIC](#)

Topic: [PIC16F1507-Oscillation EC mode 外部線路要怎接](#)

Subject: [Re: PIC16F1507-Oscillation EC mode 外部線路要怎接](#)

作者: [Ixyz1127](#)

2018年05月16日 00:03:18

1) 好奇問題一下...

使用External Clock的原因是...

=>想學習一下外部震盪,但是我一直不懂外部硬體要怎麼接,

因為我按照附檔接法,程式無法正常運作(Fosc也改為ECx mode,且RA5 改為in status),改為內振,是可以正常運作的

附加檔案:

未命名1.jpg(195.66 KB)

dsPIC30F Family Reference Manual

7.6 Crystal Oscillators/Ceramic Resonators

In XT, XTAL and HS modes, a crystal or ceramic resonator is connected to the OSC1 and OSC2 pins to establish oscillation (Figure 7-3). The dsPIC30F oscillator design requires the use of a parallel cut crystal. Using a series cut crystal may give a frequency out of the crystal manufacturer's specifications.

Figure 7-3: Crystal or Ceramic Resonator Operation (XT, XTAL or HS Oscillator Mode)

Note 1: A series resistor, R_s , may be required for AT strip cut crystals.
Note 2: The internal feedback resistor, R_f , is typically in the range of 2 to 10 M Ω .
Note 3: See Section 7.7 "Determining Best Values for Crystals, Clock Mode, C1, C2 and R_s "."

7.6.1 Oscillator/Resonator Start-up

As the device voltage increases from V_{DD} , the oscillator will start its oscillations. The time required for the oscillator to start oscillating depends on many factors. These include:

- Crystal/resonator frequency
- Capacitor values used (C1 and C2 in Figure 7-3)
- Device V_{DD} rise time
- System temperature
- Series resistor value and type if used (R_s in Figure 7-3)