

```
;Generatore delle sette note mediante TMR1/CCP1
;Il segnale è disponibile sul PIN RC0
;DO3 = 262 Hz
;RE3 = 294 Hz
;MI3 = 330 Hz
;FA#3 = 370 Hz
;SOL3 = 392 Hz
;LA3 = 440 Hz
;SI3 = 494 Hz
```

```
List      P=PIC16F887
Include   "p16F887.inc"
ERRORLEVEL -302
__config 0x2007, 0x20E4 ;0010 0000 1110 0100
__config 0x2008, 0x3EFF ;0011 1110 1111 1111
```

```
COUNT_L    EQU      0x20
COUNT_H    EQU      0x21

ORG         0x00
GOTO        DO3

ORG         0x04
;COMF       PORTC, 1
BTFSC       PORTC, 0
GOTO        AZZERA
BSF         PORTC, 0
GOTO        COMPLEMENTATO
AZZERA      BCF         PORTC, 0
COMPLEMENTATO BCF      PIR1, CCP1IF
            RETFIE

DO3         BSF         STATUS, RP0
            BCF         TRISC, 0
            MOVLW       B'01110000'
            MOVWF       OSCCON
            BSF         PIE1, CCP1IE
            BCF         STATUS, RP0
            MOVLW       B'00000001'
            MOVWF       T1CON
            MOVLW       B'00001011'
            MOVWF       CCP1CON
            MOVLW       LOW      .3817
            MOVWF       CCPR1L
            MOVLW       HIGH     .3817
            MOVWF       CCPR1H
            BSF         INTCON, GIE
```

	BSF	INTCON, PEIE
	CALL	DELAY
;RE3	MOVLW	LOW .3401
	MOVWF	CCPR1L
	MOVLW	HIGH .3401
	MOVWF	CCPR1H
	CALL	DELAY
;MI3	MOVLW	LOW .3030
	MOVWF	CCPR1L
	MOVLW	HIGH .3030
	MOVWF	CCPR1H
	CALL	DELAY
;FA#3	MOVLW	LOW .2702
	MOVWF	CCPR1L
	MOVLW	HIGH .2702
	MOVWF	CCPR1H
	CALL	DELAY
;SOL3	MOVLW	LOW .2551
	MOVWF	CCPR1L
	MOVLW	HIGH .2551
	MOVWF	CCPR1H
	CALL	DELAY
;LA3	MOVLW	LOW .2273
	MOVWF	CCPR1L
	MOVLW	HIGH .2273
	MOVWF	CCPR1H
	CALL	DELAY
;SI3	MOVLW	LOW .2024
	MOVWF	CCPR1L
	MOVLW	HIGH .2024
	MOVWF	CCPR1H
	CALL	DELAY
	BSF	STATUS, RP0
	BSF	TRISC, 0
	CALL	DELAY
	BCF	TRISC, 0
	GOTO	DO3
DEL100MS	DECFSZ	COUNT_L,1
	GOTO	DEL100MS
	MOVLW	0xFF

10_SetteNote_887

```
MOVWF    COUNT_L
DECFSZ   COUNT_H,1
GOTO     DEL100MS
MOVLW    0xFF
MOVWF    COUNT_L
MOVWF    COUNT_H
RETURN
```

```
DELAY    CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          CALL    DEL100MS
          RETURN
```

END