

ICEPIC PROG-MOD OSCILLATOR

- Frequency Range 46.875kHz-24.00MHz
- Low current consumption (CMOS IC structure)
- Starting time < 1.5mS
- High noise immunity
- No adjustment needed once frequency selected
- Frequency accurate to ± 100 ppm

The PROG-MOD uses a super small CMOS crystal clock oscillator and fits in a 14 pin DIP package equipped with a programmable frequency divider. 7 different oscillators are supplied and each frequency can be divided by $1/2$ to $1/2^8$ to give 64 possible clock speeds selectable at the users choice.

PROG-MOD Standard Frequencies

| fo MHz | fo/2 MHz | fo/4 MHz | fo/8 MHz | fo/16 kHz | fo/32 kHz | fo/64 kHz | fo/128 kHz | fo/256 kHz |
|-----------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|---------------|
| 12.00 | 6.00 | 3.00 | 1.5 | 750 | 375 | 187.5 | 93.75 | 46.875 |
| 14.31818 | 7.15909 | 3.579545 | 1.789772 | 894.88 | 447.44 | 223.72 | 111.875 | 55.9375 |
| 14.7456 | 7.3728 | 3.6864 | 1.8432 | 921.6 | 460.8 | 230.4 | 115.2 | 57.6 |
| 16.00 | 8.00 | 4.00 | 2.00 | 1000.0 | 500.0 | 250.0 | 125.0 | 62.5 |
| 19.6608 | 9.8304 | 4.9152 | 2.4576 | 1128.8 | 614.4 | 307.2 | 153.6 | 76.8 |
| 20.00 | 10.00 | 5.00 | 2.50 | 1250.0 | 625.0 | 312.5 | 156.25 | 78.125 |
| 24.00 | 12.00 | 6.00 | 3.00 | 1500.0 | 750.0 | 375.0 | 187.5 | 93.75 |

Frequency Divider Selection Links

The frequency required is selected by means of links LK1 located on the module.

| Frequency | A | B | C | D |
|-----------|-----|-----|-----|-----|
| fo | 1-2 | 1-2 | 1-2 | 1-2 |
| fo/2 | 2-3 | 2-3 | 2-3 | 2-3 |
| fo/4 | 2-3 | 1-2 | 2-3 | 2-3 |
| fo/8 | 2-3 | 2-3 | 1-2 | 2-3 |
| fo/16 | 2-3 | 1-2 | 1-2 | 2-3 |
| fo/32 | 2-3 | 2-3 | 2-3 | 1-2 |
| fo/64 | 2-3 | 1-2 | 2-3 | 1-2 |
| fo/128 | 2-3 | 2-3 | 1-2 | 1-2 |
| fo/256 | 2-3 | 1-2 | 1-2 | 1-2 |

PROG-MOD Package Contents

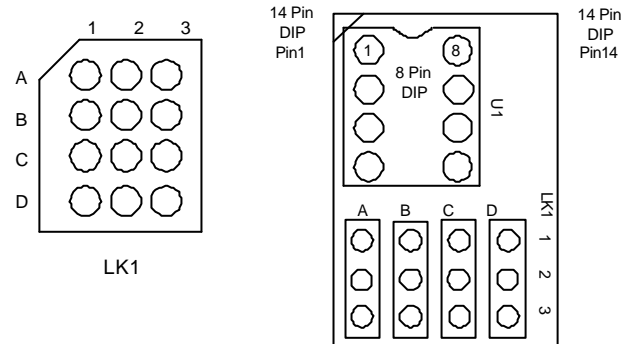
- 1pc PROG-MOD Assembly
- 1pc 32 kHz Oscillator Module
- 7pcs Crystal Oscillator ICs (12.00,14.31818,14.7456,16.00,19.6608,20.00,24.00 MHz)
- 4pcs Header links for LK1

Changing The Crystal IC

To ensure proper operation of the PROG-MOD oscillator the crystal IC must be inserted in the correct position. Pin 1 of the crystal IC must be inserted into the Pin 1 position of the 14 pin DIP package marked with a yellow triangle and make sure all pins are properly fitted into the 8 pin socket.

WARNING

The crystal oscillator employs a CMOS IC integrated with a protection circuit for static electricity, please handle only in an anti-static environment.



| Part Number | Description |
|-------------|--------------------------------|
| PROG-MOD | Programmable Oscillator Module |

For more information contact :-

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