



| PIN CONNECTIONS | | | |
|-----------------|----------------|---|---------------------|
| 1 | Original freq. | 5 | Select 1, see table |
| 2 | Divided freq. | 6 | Select 2, see table |
| 3 | Enable/Disable | 7 | Select 3, see table |
| 4 | Ground | 8 | Supply voltage |

Scale 1:1

Features

- ▶ User programmable frequency divider
- ▶ Standard frequencies held in stock
- ▶ Fast startup time
- ▶ Enable / disable function
- ▶ Low cost for volume applications

Standard Frequencies

| Frequencies in MHz | | |
|--------------------|----------|----------|
| 12.00000 | 16.00000 | 20.48000 |
| 12.28800 | 16.12800 | 21.47727 |
| 12.80000 | 16.25700 | 22.00000 |
| 14.31818 | 16.38400 | 22.11840 |
| 14.50000 | 17.73447 | 24.00000 |
| 14.74560 | 18.43200 | 24.57600 |
| 15.00000 | 19.20000 | 30.00000 |
| 15.36000 | 19.66080 | 32.00000 |
| 15.97440 | 20.00000 | |

Specifications

| Parameters | Product | Option Codes |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|--------------|
| | EXO-3C | |
| Package style: | 8 pin DIP | ■ |
| Frequency range: | 46.875kHz ~ 32.0MHz | ■ specify |
| Frequency stability: | ±100ppm max (<30.0MHz) ±150ppm max (30.0 ~ 32.0MHz) | ■ |
| Operating temperature range: | -10 to +70°C | ■ |
| Storage temperature range: | -55 to +125°C | ■ |
| Supply voltage (V_{DD}): | +5.0V (±10%) | ■ |
| Supply current (max): | 20mA | ■ |
| Driving ability: | CMOS | ■ |
| Output voltage: | '0' level (V _{OL}) = 0.5V max '1' level (V _{OH}) = 90%V _{DD} min | ■ |
| Rise / fall times: | 15ns max | ■ |
| Startup time: | 1.5ms max (<30.0MHz) 2ms max (30.0 ~ 32.0MHz) | ■ |
| Waveform symmetry: | 40:60 max | ■ |

■ Standard. □ Optional - Please specify required code(s) when ordering

Output Frequency Selection

| INPUT | | | | OUTPUT | |
|-------------------|-------|-------|------------------|-------------------------|--------------------------------------------------|
| Divider Selection | | | Standby Pin 3 | Original Freq. Pin 1 | Divided Output Pin 2 |
| Pin 7 | Pin 6 | Pin 5 | | | |
| - | - | - | Low | Disabled | Disabled |
| Low | Low | Low | High | f _o | f _d = f _o / 2 |
| Low | Low | High | High | f _o | f _d = f _o / 2 ² |
| Low | High | Low | High | f _o | f _d = f _o / 2 ³ |
| Low | High | High | High | f _o | f _d = f _o / 2 ⁴ |
| High | Low | Low | High | f _o | f _d = f _o / 2 ⁵ |
| High | Low | High | High | f _o | f _d = f _o / 2 ⁶ |
| High | High | Low | High | f _o | f _d = f _o / 2 ⁷ |
| High | High | High | High | f _o | f _d = f _o / 2 ⁸ |

f_o = Original frequency, f_d = Divided frequency.

Ordering Information

Product name + frequency
 e.g: **EXO-3C 14.31818MHz**
EXO-3C 32.0MHz