

Oven Controlled Crystal Oscillator

- Frequency range 2.0MHz ~ 40.0MHz
- High reliability, excellent temperature stabilities
- Fast warm-up, low power consumption
- SC-cut high precision internal thermal crystal

CO605

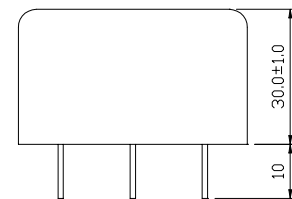
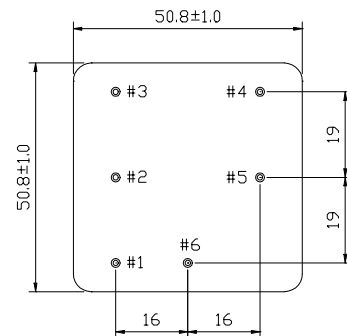
Specifications:

| | | |
|-------------------------------|--|--------------|
| Frequency Range: | 2.0 MHz or 40.0 MHz | |
| Operating Temperature: | 0°C ~ +50°C | - A |
| | -10°C ~ +45°C | - B |
| | -10°C ~ +55°C | - C |
| | -20°C ~ +60°C | - D |
| | -30°C ~ +70°C | - E |
| Storage Temperature: | -40°C ~ +85°C | |
| Frequency Stability: | | |
| Accuracy: | $\pm 5 \times 10^{-9}$ | |
| Vs. Temperature: | $\pm 5 \times 10^{-7}$ | - 57 |
| | $\pm 1 \times 10^{-7}$ | - 17 |
| | $\pm 5 \times 10^{-8}$ | - 58 |
| | $\pm 1 \times 10^{-8}$ | - 18 |
| | $\pm 5 \times 10^{-9}$ | - 59 |
| Short-Term Stability: | $\pm 1 \times 10^{-11}$ | per second |
| Aging Rate: | $\pm 1 \times 10^{-10}$ | per day |
| | $\pm 5 \times 10^{-9}$ | per year max |
| Output Waveform: | Clipped-Sine Wave, HCMOS | |
| Output Level: | 1.0 V _{p-p} min clipped-sine @ 1K Ω TTL, HCMOS compatible | |
| Phase Noise: | -100dBc/Hz | @ 10 Hz |
| | -130sBc/Hz | @ 100 Hz |
| | -140dBc/Hz | @ 1 KHz |
| | -145dBc/Hz | @ 10 KHz |
| Harmonics Distortion: | -30 dB | |
| Supply Voltage: | +5.0 VDC ($\pm 5\%$) | |
| | +12.0 VDC ($\pm 5\%$) | - P |
| Supply Current: | 400mA max at warm-up 100mA max after warm-up at 25°C | |
| Frequency Adjust: | ± 3.0 ppm tuning via ext potentiometer | |

Note:

1. Other frequencies, stabilities, and operating temperature ranges available. Consult VTC Support for specific requirements.
2. Not all combinations of the above, stabilities, and temperature ranges are available. Consult VTC Support if your requirement is not standard.
3. All specifications subject to change without notice.

CO-E



| Pin | Configurations |
|-----|----------------|
| 1 | Vcc |
| 2 | Vref |
| 3 | Vc/Nc |
| 4 | Ground |
| 5 | Output |
| 6 | Vcc Ground |

All dimensions are in mm

Ordering Information

Product name + Temperature + Stability + Frequency + Other Specification Code.

i.e. CO604C18-10.0MHz

or CO604D58P-10.0MHz