

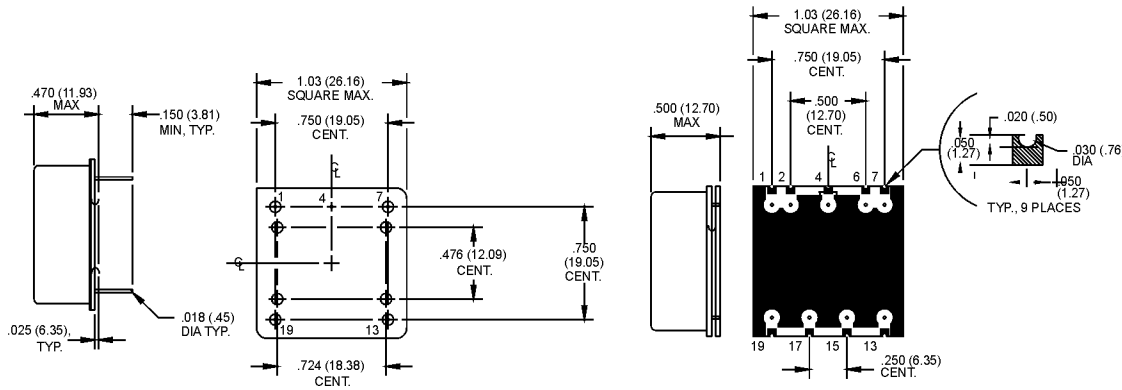
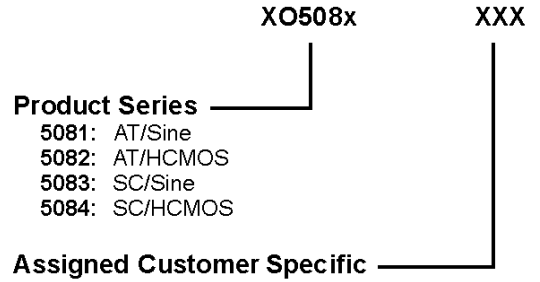
XO5080 Series

1x1 inch, 5.0 Volt, HCMOS or Sinewave, OCXO



- Surface mount package offering both AT and SC-cut crystals
- Ideal for microwave radios (short haul), base stations, and test equipment applications where size and package style (SMT) are critical

Ordering Information



Dimensions are in inches (mm)

| PIN CONNECTIONS | |
|-----------------|-----------------------------|
| 1. | RF OUTPUT |
| 2. | N/C |
| 4. | CASE GROUND & SUPPLY RETURN |
| 6. | N/C |
| 7. | FREQUENCY ADJUST OR Vref |
| 13. | Vref (OPTIONAL) |
| 15. | N/C |
| 17. | OVEN READY (OPTIONAL) |
| 19. | SUPPLY (+) |

Pin numbers shown for ref. only.
Numbers are not marked on unit.

| | PARAMETER | Symbol | Min. | Typ. | Max. | Units | Condition |
|------------------------------|----------------------------|-----------------|--------|----------|--|-------|----------------|
| Electrical Specifications | Frequency Range | F | 3 | | 100 | MHz | |
| | Operating Temperature | T _a | | 0 to +70 | | °C | |
| | Stability Over Temperature | ΔF/F | | | ±1.0 x 10 ⁻⁸ | ppm | SC-Cut |
| | | | | | ±5.0 x 10 ⁻⁸ | ppm | AT-Cut |
| | Short Term Stability | | | | | | |
| | Aging (First Year) | | | | ±1.5 x 10 ⁻⁷ | ppm | SC-Cut |
| | | | | | ±2.0 x 10 ⁻⁷ | ppm | AT-Cut |
| | Frequency vs. Supply | | | | | | |
| | Frequency vs. Load | | | | | | |
| | Supply Voltage | V _{dc} | | | 5 Vdc ±5% | Volts | |
| | Warm-Up Time @ 25°C | | | | To within ±1 x 10 ⁻⁷ of F ₀ in 2 min | | |
| | Warm-Up Current | | | | | | |
| | Supply Current | | | | | | |
| | Output Signal | | | | | | Sinewave/HCMOS |
| | Rise/Fall Time | | | | | | |
| Logic "0" Level | | | | | | | |
| Logic "1" Level | | | | | | | |
| Symmetry | | | | | | | |
| Output Load | | | | | | | |
| Frequency Adjustment (Pin 1) | | | | | | | |
| Tuning Slope | | | | Positive | | | |
| Input Impedance (Pin 1) | | | | | | | |
| Phase Noise | | | SC-Cut | AT-Cut | | | |
| | 1 Hz | | -90 | -80 | | | |
| | 10 Hz | | -120 | -115 | | | |
| | 100 Hz | | -140 | -140 | | | |
| | 1 kHz | | -145 | -145 | | | |
| | 10 kHz | | -145 | -145 | | | |
| Environmental | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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