



# Model XO3086-003V

## Temperature Compensated Crystal Oscillator

### Electrical Specifications

**Nominal Frequency (F<sub>0</sub>):** 12.0MHz

**Frequency Stability**

- Over Temperature:  $\pm 2.0$ ppm maximum
- Yearly Aging:  $< \pm 1$ ppm
- 10-Years Aging:  $< \pm 4$ ppm

**Frequency Adjustment**

- Method, External Voltage,  $0V_{DC}$  to  $+5.0V_{DC}$
- Range: Greater than 10-years aging & offset correction
- Slope: Negative

**Output (Sinewave)**

- Level: +4dBm, minimum
- Load:  $50\Omega \pm 10\%$

**SSB Phase Noise (maximum)**

- 80dbc/Hz @ 10Hz offset
- 105dBc/Hz @ 100Hz offset
- 130dbc/Hz @ 1kHz offset
- 145dbc/Hz @ 10kHz offset

**Power Supply**

- Voltage:  $+5.0V_{DC} \pm 5\%$
- Current Consumption: 15.0mA maximum

**Temperature Range**

- Operating:  $-55^{\circ}C$  to  $+85^{\circ}C$
- Storage:  $-55^{\circ}C$  to  $+85^{\circ}C$

**RoHS:** RoHS-5 Compliant. The XO3086-003V utilizes Sn63 throughout its construction.

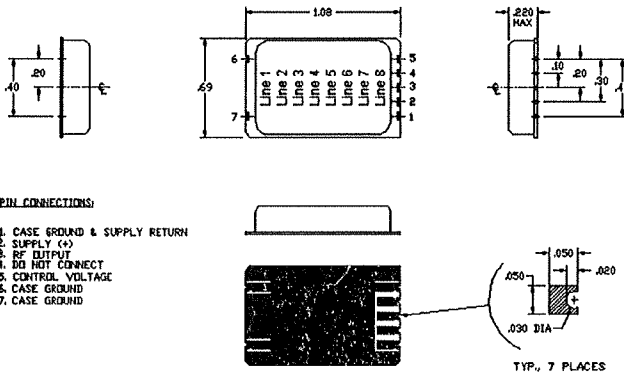
MtronPTI MODEL: XO3086-003V

ENG APPROVAL: MM

DATE: 5/19/11

MFG APPROVAL: SA

DATE: 5/20/11

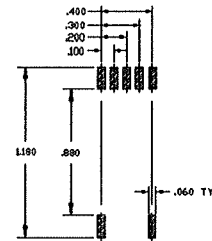


**Front Part Marking (Laser Marked)**

- Line 1: MtronPTI 25120
- Line 2: XO3086-003V
- Line 3: (Blank)
- Line 4: FREQ: 12.000
- Line 5: OFFSET xxxx Hz
- Line 6: @ 25°C
- Line 7: S/N. xxxxx
- Line 8: D/C. yyyy

**Bottom Part Marking**

Serial Number Only



**Suggested Land Pattern**

Oscillator is to be soldered to lands by hand with a maximum land temp of 260°C for a maximum of 3 seconds.

**Note:** Although the XO3086 family is an SMT device, it is not a reflow assembly compatible device. Therefore, it must be hand assembled to the PCB.