

Model XO3086-006 Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (Fo): 12.0MHz

Frequency Stability

Over Temperature: $\leq \pm 1$ ppm Aging per Year: ≤ ±1ppm

Frequency Adjustment

Method: External Voltage, 0 to +5.0V_{DC} Tuning Range: Sufficient for 10-years aging

Slope: Negative

Output (Sinewave)

PIN CONNECTIONS

SUPPLY (+)
RF DUTPUT
DD NOT CONNECT
CONTROL VOLTAGE
CASE GROWND
CASE GROWND

Level: +3dBm ±3dB Load: $50\Omega \pm 10\%$

Spurious: -70dBc maximum

CASE GROUND & SUPPLY RETURN

Harmonics (Goals to be verified @ proto build)

2nd Harmonic (24MHz):-25dBc Typical

All Others: -30dBc maximum

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DOCUMENT CONTROL

SSB Phase Noise (maximum)

-70dBc/Hz @ 10Hz offset

-105dBc/Hz @ 100Hz offset

-132dBc/Hz @ 1kHz offset

-150dBc/Hz @ 10kHz offset

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Power Supply

Voltage: $+5.0V_{DC} \pm 5\%$

Current Consumption: 15mA maximum

MironPTI MODEL:

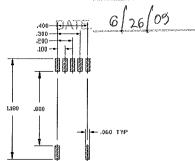
X03086-006

Temperature Range

Operating: -55°C to CAPPROVAL:

Storage: -55°C to +85°C

MFG APPROVAL



Line 5; OFFSET xxxx Hz Line 6; @ 25°C Line 7: S/N. xxxxx

Line 8: D/C. yywx Bottom Part Marking Serial Number Only

Front Part Marking (Laser Marked) Line 1: MtronPTI 25120 Line 2: XO3086-006 Line 3: (Blank) Line 4: FREQ: 12.000

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 .

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

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Rev. A

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MtronPTI, Inc. - 2525 Shader Road - Orlando - Florida - 32804-2780 **Telephone: 407-298-2000** Fax: 407-293-2979 E-mail: Sales@mtronpti.com