

Model XO3086-005

Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (Fo): 120MHz

Initial Frequency ($V_C = +2.5 \text{V} \ \text{@} \ 25^{\circ}\text{C}$): $\leq F_O \pm 4.0 \text{ppm}$

Frequency Stability

Over Temperature: ≤±1.0 ppm First Year Aging: ≤±2 ppm 10-Year Aging: ≤±5 ppm

Frequency Adjustment

Method, External Voltage (V_C), 0V_{DC} to +5.0V_{DC}

Range: Sufficient for 10-years aging

Slope: Negative

Output (Sinewave)

Level: $+3dBm \pm 3.0dB$ Load: $50\Omega \pm 10\%$

Spurious: -70dBc maximum

Harmonics

2nd harmonic (240MHz): -25dBc typical

All others: -30dBc maximum

SSB Phase Noise (maximum)

-70dbc/Hz @ 10Hz offset

-105dBc/Hz @ 100Hz offset

-132dbc/Hz @ 1kHz offset

-150dbc/Hz @ 10kHz offset

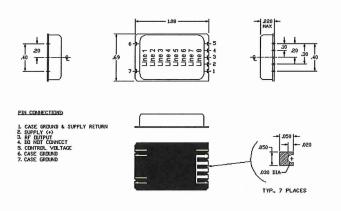
Power Supply

Voltage: +5.0V_{DC} ±5%

Current Consumption: 15.0mA maximum

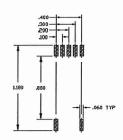
Temperature Range

Operating: -55°C to +85°C Storage: -55°C to +85°C



Front Part Marking
(Laser Marked)
Line 1: MtronPTI 2612
Line 2: X03088-005
Line 3: (Blank)
Line 4: FREG: 120.000
Line 5: OFF SET XXXX HZ
Line 6: @ 25°C
Line 7: SNA. XXXXX
Line 8: D/C. YYYXXXXXXX
Line 8: D/C. YYXXXXXXXXX

Bottom Part Marking Serial Number Only



MtronPTI Model: XO3086-005

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MFG. Approval:

DATE 2

DATE

QA Approval:

ENG. Approval: M.McKanat

Suggested Land Pattern

Dscillator is to be soldered to lands by hand with a naxhun land temp of 260°C for a naxhum 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.

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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