



Model XO3086-003V

Temperature Compensated Crystal Oscillator

Electrical Specifications

Nominal Frequency (F₀): 12.0MHz

Frequency Stability

Over Temperature: ±2.0ppm maximum

Yearly Aging: <±1ppm 10-Years Aging: <±4ppm

Frequency Adjustment

Method, External Voltage, $0V_{DC}$ to $\pm 5.0V_{DC}$

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

MitronPTI MODEL: XO3086-003V

ENG APPROVAL:

DATE <u>5/19/11</u>

Power Supply

Voltage: +5.0V_{DC} ±5%

Current Consumption: 15.0mA maximum

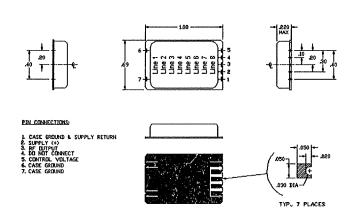
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Temperature Range

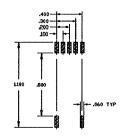
Operating: -55°C to +85°C Storage: -55°C to +85°C

RoHS: RoHS-5 Compliant. The XO3086-003V utilizes

Sn63 throughout its construction.



Front Part Marking
(Laser Marked)
Line 1: MironPTI 25120
Line 2: X03086-003V
Line 3: (Blank)
Line 4: FREQ: 12.000
Line 6: OFFSET XXXX Hz
Line 6: @ 25°C
Line 7: SRN. XXXX
Line 8: D/C. yyww
Bottom Part Marking



Suggested Land Pattern

BscRlator is to be soldered to lands by hand with
a naxhum 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.

Revised: May 18, 2011

Rev. D

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