Electrical Specifications (typical)

Nominal Frequency (Fo): 10.0MHz

Frequency Stability

Over Temperature: $\leq \pm 10$ ppb Daily Aging: $\leq \pm 0.50$ ppb Yearly Aging: $\leq \pm 0.1$ ppm 10-Year Aging: $\leq \pm 1$ ppm

vs Supply: $\leq \pm 2ppb/percent$ change

Frequency Adjustment

Method: External Voltage, $0V_{DC}$ to $+10.0V_{DC}$

Range: Sufficient for 10 years aging Modulation Bandwidth: 10Hz typical

Input Impedance: $>20K\Omega$

Slope: Positive

Output (Sinewave)

 \geq +7 dBm

Load: 50Ω , $\pm 10\%$

Warm Up Time @ 25°C (relative to 2 hrs after turn-on

following 24 hrs off) to within 0.1ppm of final

frequency: 3.0 minutes

Acceleration Sensitivity: <±1ppb/g

Harmonics: ≤ -30dBc (no spurious)

Oscillator Disable (TTL/CMOS Level Input)

 $Z_{IN}, > 10 K\Omega$

Pin 6 LOW (or Floating): Oscillator ENABLED

Pin 6 HIGH: Oscillator DISABLED

SSB Phase Noise (typical)

-130dBc/Hz @ 10Hz offset

-152dBc/Hz @ 100Hz offset

-160dBc/Hz @ 1kHz offset

-165dBc/Hz @ 10kHz offset

-165dBc/Hz @ 100kHz offset

Power

Supply Voltage: +12.0V_{DC}, ±5%

Power Consumption @ 25C° Steady State: 1.0W typ.

Power Consumption at turn-on: < 3.6W

Temperature Range

Operating: 0°C to +70°C Storage: -20°C to +85°C

Mass: <20-grams

Note: Device is not reflow compatible hand solder only

PIN ASSIGNMENTS	
1	RF DUTPUT
4	CASE GROUND
6	OSC DISABLE
7	V TUNE
19	SUPPLY VOLTAGE
2,13,15,17	N/C

PIN NO'S, SHOWN FOR REFERENCE ONLY.

Revised: September 23, 2014

Rev. C

Page 1 of 1

The information contained herein is proprietary to MtronPTI and is submitted in confidence. This information may not be copied or divulged without the express written permission of MtronPTI

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