

Electrical Specifications

Nominal Frequency (F₀): 10.0 MHz (available from 10 MHz to 120 MHz)

Frequency Stability (for 10 MHz)

vs. temperature, < ±10ppb vs. Power Supply (±5%), <±2ppb vs. Load (±10%), <±2ppb vs. time after 30 days continuous operation <±1ppb/day <±100ppb first year <±500ppb for 10 years

Frequency Adjustment

Method, external voltage, $0V_{DC}$ to $+4V_{DC}$ Range,: sufficient for > 10-years aging adjustment Modulation bandwidth, >1KHz Slope, Positive

Output - Sinewave (*HCMOS Available*) Level, > +3dBm Load, 50Ω , $\pm 10\%$

Harmonics: < - 30dBc

Warm Up Time @ 25°C

To within 0.1ppm of final frequency, <2.0 minutes

SSB Phase Noise (maximum for 10 MHz) -90dBc/Hz @ 1Hz offset -120dBc/Hz @ 10Hz offset -140dBc/Hz @ 100Hz offset -150dBc/Hz @ 1kHz offset -150dBc/Hz @ 10kHz offset

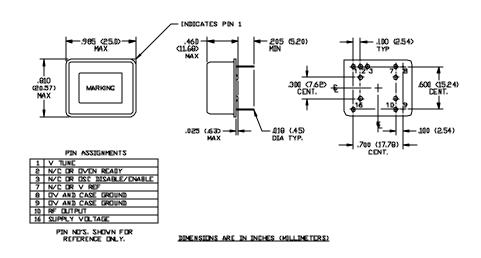
Oscillator Disable (TTL/CMOS Level Input) LOW (or Floating),: Oscillator ENABLED HIGH, Oscillator DISABLED

Oven Ready (Open Collector Output) LOW, oven NOT ready (3*mA* sink, maximum) HIGH, oven ready

Power Supply Voltage: +5.0V_{DC}±5% (available from +5V to +15V)

Power Consumption <4W during warm up <1.25W steady state at 25°C

Operating Temperature Range: 0°C to +70°C (available from -40 °C to 85 °C)



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Consult the Factory with your specific requirements.

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