Model XO5183-XXX
Oven Controlled Crystal Oscillator

Electrical Specifications

Nominal Frequency (F_O): 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, ±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

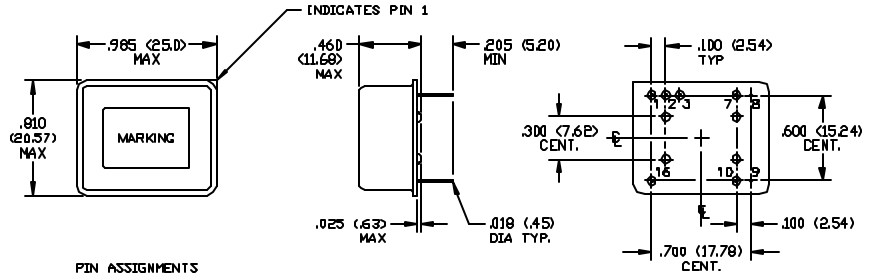
Oscillator Disable (TTL/CMOS Level Input)
LOW (or Floating),: Oscillator ENABLED
HIGH, Oscillator DISABLED

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)



PIN ASSIGNMENTS

1	V TUNE
2	N/C OR OVEN READY
3	N/C OR OSC DISABLE/ENABLE
7	N/C OR V REF
8	0V AND CASE GROUND
9	0V AND CASE GROUND
10	RF OUTPUT
16	SUPPLY VOLTAGE

PIN NO'S. SHOWN FOR REFERENCE ONLY.

DIMENSIONS ARE IN INCHES (MILLIMETERS)

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