

Model XO5081-048sR

Oven Controlled Crystal Oscillator

Full RoHS Compliance

Electrical Specifications

Nominal Frequency (F₀): 40.0MHz

Frequency Stability

Over Temperature: ± 50 ppb
Aging (after 30-days power on)
Daily: $< \pm 2$ ppb
Yearly: $< \pm 500$ ppb

Frequency Adjustment

Method: External 10K Ω Potentiometer
Range: ± 4 ppm typical
Modulation Bandwidth: < 1000 Hz
Slope: Positive

Output (Sinewave)

Level: +10dBm minimum
Load: 50 $\Omega \pm 10\%$

SSB Phase Noise (Typical)

-100dBc/Hz @ 10Hz offset
-130dBc/Hz @ 100Hz offset
-150dBc/Hz @ 1kHz offset
-153dBc/Hz @ 10kHz offset

Warm Up Time @ +25°C

To within 0.1ppm of 1-hour frequency: < 3 -minutes

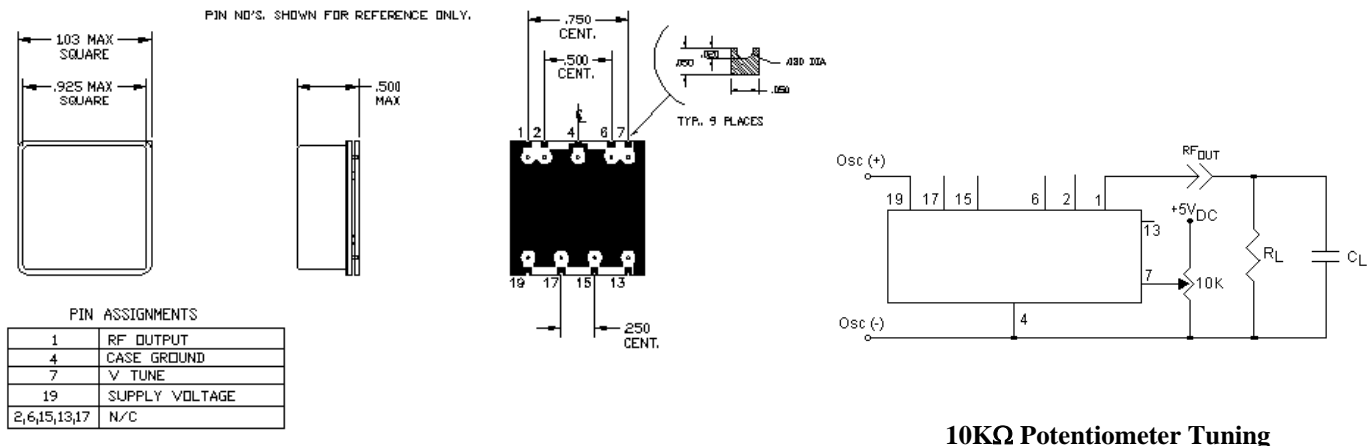
Power

Supply Voltage (V_s): +10.5V_{DC} $\pm 5\%$
Power Consumption
@ 25°C Steady State: 1.25W typical
@ Warm Up: < 3.5 W

Temperature Range

Operating: 0°C to +50°C
Storage: -55°C to +85°C

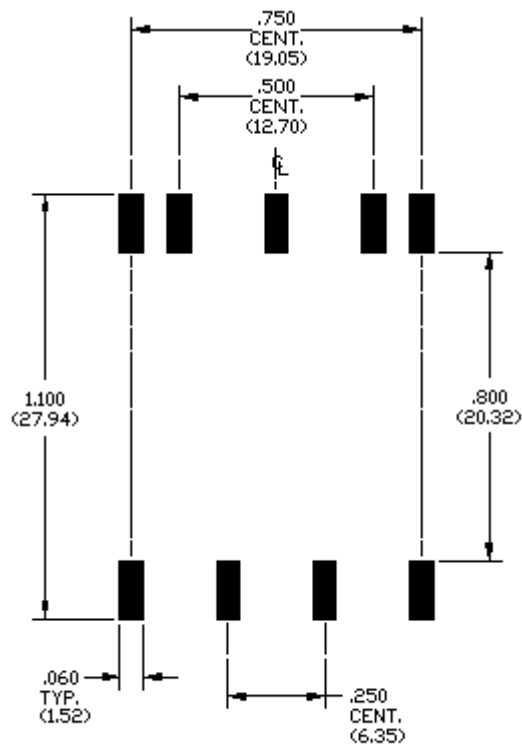
Note: Sn96 solder is utilized throughout the construction of this OCXO with the exception that Sn10 is utilized to solder the surface mount adapter board to the OCXO.



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SUGGESTED LAND PATTERN

Figure 2 – Recommended PAD Layout

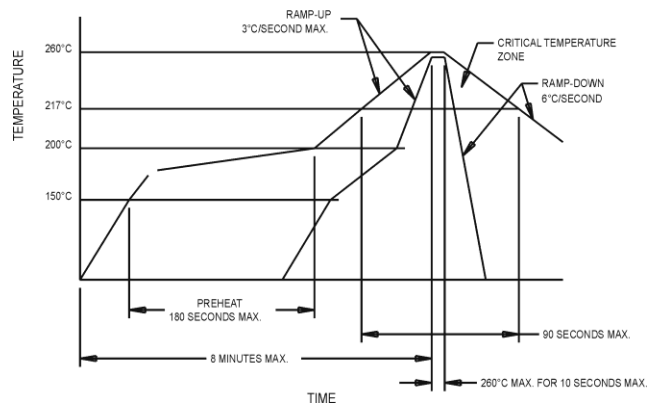


Figure 3 – Reflow Solder Profile