



Model XO5081-048sR Oven Controlled Crystal Oscillator

Full RoHS Compliance

Electrical Specifications

Nominal Frequency (Fo): 40.0MHz

Frequency Stability

Over Temperature: ±50ppb Aging (after 30-days power on)

Daily: < ±2ppb Yearly: < ±500ppb

Frequency Adjustment

Method: External 10KΩ Potentiometer

Range: ±4ppm typical

Modulation Bandwidth: < 1000Hz

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): +10.5 V_{DC} ±5%

Power Consumption

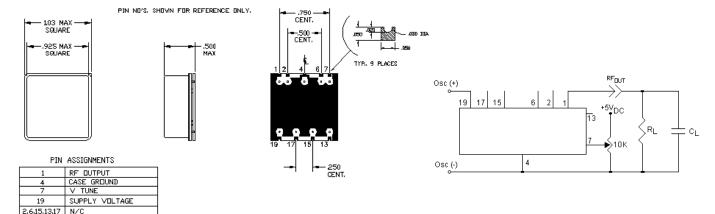
@ 25C° Steady State: 1.25W typical

@ Warm Up: < 3.5W

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.



10KΩ Potentiometer Tuning

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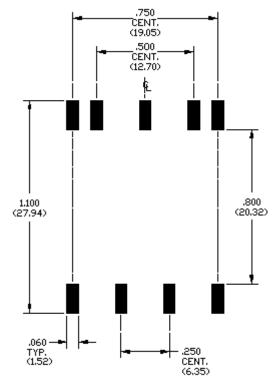
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280°C
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217°C
200°C
200°C
150°C
200°C
150°C
200°C

Figure 3 – Reflow Solder Profile

SUGGESTED LAND PATTERN

Figure 2 - Recommended PAD Layout

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