

XO5051 Series

2x2 inch, 12.0 & 15.0 Volt, Sinewave, OCXO

- Low noise and high output level
- SMA connector

Model	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging Yearly	Output	Supply Voltage
XO5051	100	0 to +70	$\pm 5.0 \times 10^{-7}$	$\pm 1 \times 10^{-6}$	Sinewave	+12 Vdc
Options	10 - 125	See Table		Consult Factory		+15 Vdc

Additional Specifications

Aging over first year	$\leq \pm 3 \times 10^{-6}/10$ years
Warm up time	$\leq \pm 2 \times 10^{-8}$ within 5 minutes
Current	<150 mA @ 25°C
Warm up current	<400 mA
Aging adjustment	
Voltage range	0.5 V to 4.5 V
Deviation	$\pm 3 \times 10^{-6}$ min
Slope	Positive

Phase Noise @ 100 MHz

	AT-Cut	SC-Cut
1 Hz	-45 dBc/Hz	-60 dBc/Hz
10 Hz	-75 dBc/Hz	-90 dBc/Hz
100 kHz	-105 dBc/Hz	-120 dBc/Hz
1 kHz	-135 dBc/Hz	-140 dBc/Hz
10 kHz	-150 dBc/Hz	-150 dBc/Hz
≥ 100 kHz	-170 dBc/Hz	-170 dBc/Hz

Output Levels

+20 dBm into 50 Ω
Spurious ≤ -75 dBc

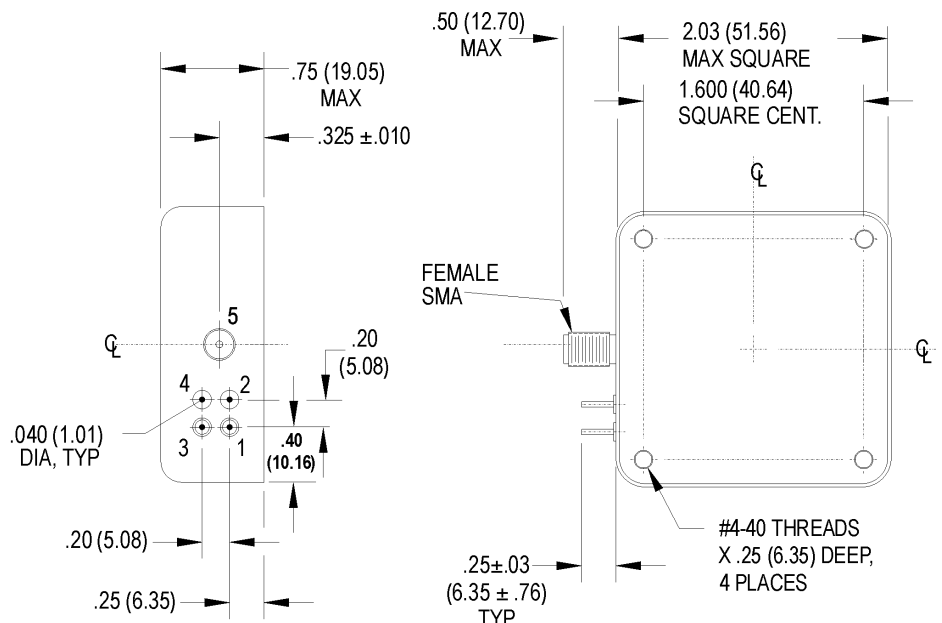
Optional Frequency/Temperature Range (°C)	Stability (ppm) Stability Limits	
	SC-Cut	AT-Cut
0 to +50	$\pm 3 \times 10^{-8}$	$\pm 3 \times 10^{-7}$
0 to +70	$\pm 5 \times 10^{-8}$	$\pm 5 \times 10^{-7}$
-10 to +70	$\pm 6 \times 10^{-8}$	$\pm 6 \times 10^{-7}$
-30 to +70	$\pm 8 \times 10^{-8}$	$\pm 8 \times 10^{-7}$
-40 to +70	$\pm 1 \times 10^{-7}$	$\pm 1 \times 10^{-6}$

Dimensions are in inches (mm)

Pin Connections:

1. Supply (+)
2. Case ground & supply return
3. Frequency adjust
4. Case ground
5. RF out (Female SMA)

Pin numbers shown for reference only.
Numbers are not marked on unit.



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