



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

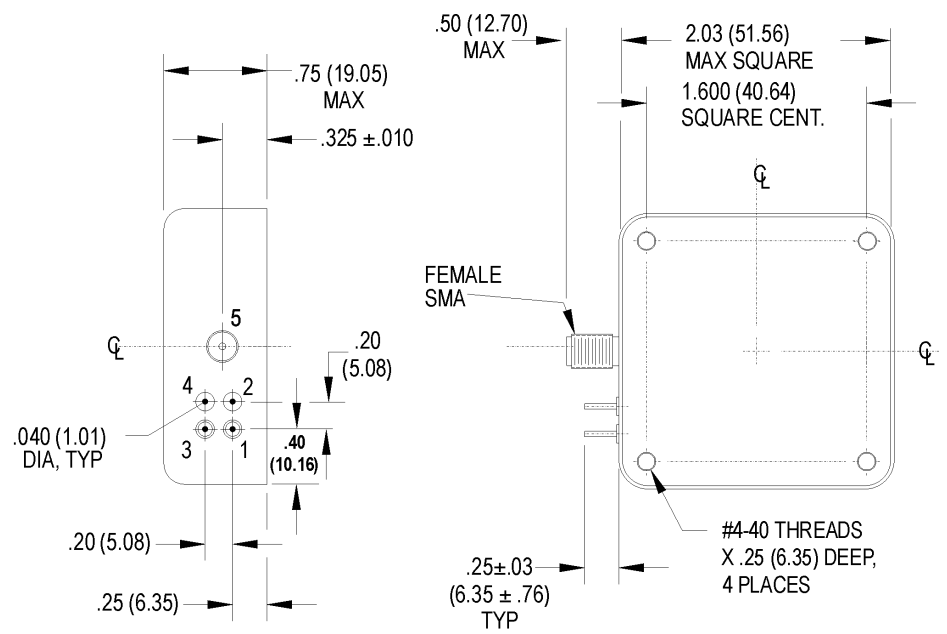
Additional Specifications		
Aging over first year	$\leq \pm 3 \times 10^{-6} / 10$ years	
Warm up time	$\leq \pm 2 \times 10^{-8}$ within 5 minutes	
Current	<150 mA @ 25°C	
Warm up current	<400 mA	
Aging adjustment		
Voltage range	0.5 V to 4.5 V	
Deviation	$\pm 3 \times 10^{-6}$ min	
Slope	Positive	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