

XO5051 Series

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

- **Low noise and high output level**
- **SMA connector**

Model XO5051	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging Yearly	Output	Supply Voltage
AT-Cut	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	$\leq +3 \times 10^{-6}/10$ years
Warm up time	$\leq +2 \times 10^{-8}$ 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

1 Hz	-45 dBc/Hz	-60dBc/Hz
10 Hz	-75dBc/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

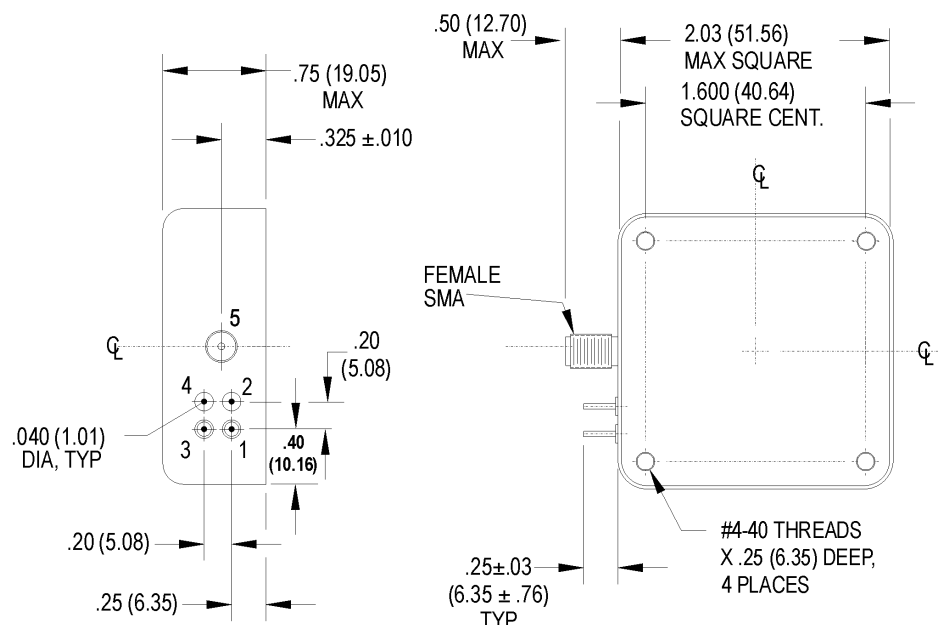
Spurious ≤ -75 dBc

Optional Frequency/Temperature Stability (ppm)		
TemperatureRange (°C)	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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