XO5030 Series 1.5x1.5 inch, 12.0 Volt, HCMOS/Sinewave, OCXO



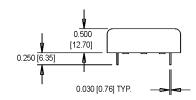


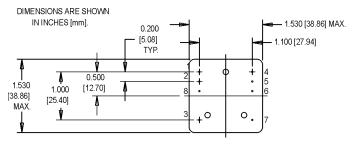
- Low phase noise and aging Ideal for Stratum 3E, PCS
- base stations, Synthesizers, and test equipment

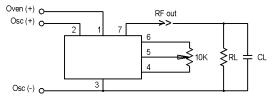
Model	Frequency	Temperature	Temperature	Aging	Output	Supply
XO5030	(MHz)	Range (°C)	Stability	Yearly		Voltage
5030 AT-Cut	10	0 to +70	±5 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	Sine	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
5031 AT-Cut	10	0 to +70	±5 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	HCMOS	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
5032 SC-Cut	10	0 to +70	±1 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	Sine	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
5033 SC-Cut	10	0 to +70	±1 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	HCMOS	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
5035 SC-Cut	10	0 to +70	±2 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	Sine	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
5036 SC-Cut	10	0 to +70	±2 x 10 ⁻⁸	±5.0 x 10 ⁻⁸	HCMOS	+12 Vdc ±5% osc (+14 V ±1.5 V oven)
Options	3 to 50	See	Table	Consult	Factory	+12 Vdc to 24 Vdc

Additional Specifications	5			
Aging per day		±1.0 x 10 ⁻⁹ fo	or SC-cut	
Warm-up power		8 watts max		
Power		1.5 watt max	@ 25°C steady state	
Warm-up time		To within ±0.01ppm of Fo in 5 min @ 25°C (SC-cut)		
External tuning voltage		>±1 ppm <±3	3 ppm	
Tuning voltage range		0 to 7 volts		
Slope		Positive		
Phase Noise	(SC-cut) 5035-5036	(SC-cut) 5032-5033		
1 Hz	(dbc/Hz) -90	(dbc/Hz) -90	(dbc/Hz) -80	
1 HZ 10 Hz	-90 -130	-90 -120	-00	
10 Hz	-150	-135	-135	
1 kHz	-160	-145	-145	
10 kHz	-160	-143	-143	
	-100	-152	-152	
Sinewave				
Load	50 Ω			
Output Level	+3 dBm ±3 d	Bm		
HCMOS				
Duty cycle	40/60			
Load	2 Gates			

Temperature Range (°C)	es and Frequency Stabiliite Stability Limits		
· · · ·	SC-Cut	AT-Cut	
0 to +50	±5 x 10 ⁻⁹	±3 x 10 ⁻⁸	
0 to +70	±1 x 10 ⁻⁸	±5 x 10 ⁻⁸	
-10 to +70	±2 x 10 ⁻⁸	±5 x 10 ⁻⁸	
-30 to +70	±3 x 10 ⁻⁸	±5 x 10 ⁻⁸	
-40 to +70	±4 x 10 ⁻⁸	±8 x 10 ⁻⁸	
-55 to +70	±6 x 10 ⁻⁸	±1 x 10 ⁻⁷	







MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Pin Connections

FUNCTION

Oven Supply (+)

Case Ground Frequency Adjust

RF Output

Vref

Oscillator Supply (+)

Oven Ready (Optional)

Case Ground & Supply Return

PIN

1

2

3

4

5 6

7

8

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.