XO5120 Series

1.4x1 inch, TTL or Sinewave, OCXO



- Surface mount package offering both AT and SC-cut crystals
- Ideal for microwave radios (short haul), base stations and test equipment applications where size and package style (SMT) are critical.

Model XO5120	Frequency (MHz)	Temperature Range (°C)	Temperature Stability	Aging First Year	Output	Supply Voltage
SC-Cut	10	0 to +70	±1.0 x 10 ⁻⁸	±1.5 x 10 ⁻⁷	Sinewave/HCMOS/TTL	5V _{DC} ±5%
AT-Cut	10	0 to +70	±5.0 x 10 ⁻⁸	±2.0 x 10 ⁻⁷	Sinewave/HCMOS/TTL	5V _{DC} ±5%
Options	10 to 100	-45 to +85	Consult Factory		Sinewave/HCMOS/TTL	5-15V _{DC}

Additional Typical Specifications					
	SC-Cut	AT-Cut			
Daily Aging	<±5x10 ⁻¹⁰	<±1x10 ⁻⁹			
Power Consumption	1.25 watts @ 25°C steady state				
Warm-up Power	4.0 watts				
Warm-up Time @ 25°C	To within $\pm 1 \times 10^{-7}$ of F _O in 2-minutes				
Frequency Adjustment	<±2x10 ⁻⁶	<±4x10 ⁻⁶			
Control Voltage	0-4V				
Slope	Positive				
Reference Output	3.9V				
Sine Output Level	+3dBm to +7dBm ±3dBm				
SSB Phase Noise at 10MHz					
1Hz	-90dBc/Hz	-80dBc/Hz			
10Hz	-120dBc/Hz	-115dBc/Hz			
100Hz	-140dBc/Hz	-140dBc/Hz			
1kHz	-150dBc/Hz	-145dBc/Hz			
10kHz	-155dBc/Hz	-150dBc/Hz			

Optional Temperature Ranges and Frequency Stabilities (F/T)					
OTR °C	SC-Cut	AT-Cut			
0 to +50	±5x10 ⁻⁹	±3x10 ⁻⁸			
0 to +70	±1x10 ⁻⁸	±5x10 ⁻⁸			
-10 to +70	±2x10 ⁻⁸	±5x10 ⁻⁸			
-30 to +70	±3x10 ⁻⁸	±5x10 ⁻⁸			
-40 to +70	±4x10 ⁻⁸	±8x10 ⁻⁸			
-45 to +85	±5x10 ⁻⁸	±1x10 ⁻⁷			

Model	Crystal Cut	Output Type	
XO5121	AT-Cut	Sinewave	
XO5122	AT-Cut	HCMOS/TTL	
XO5123	SC-Cut	Sinewave	
XO5124	SC-Cut	HCMOS/TTL	

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