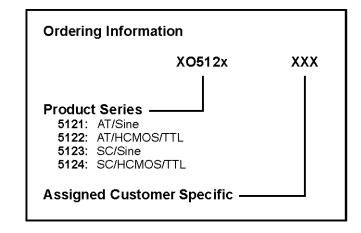
XO5120 Series

1.4x1 inch, TTL or Sinewave, OCXO



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

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						



	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	10	100		MHz		
	Operating Temperature	TA		0 to +70				
	Stability Over Temperature	ΔF/F			±1.0 x 10 ⁻⁸	ppm		
					±5.0 x 10 ⁻⁸			
	Short Term Stability				5 x 10 ⁻¹¹		0.1 to 30 secs.	
	Aging (First Year)				±1.5 x 10 ⁻⁷	ppm	SC Cut	
					±2.0 x 10 ⁻⁷	ppm	AT Cut	
	Frequency vs. Supply				±0.1	ppm		
	Frequency vs. Load				±0.01	ppm		
	Supply Voltage	Vdc	5 Vdc ±5%			Volts		
ns	Warm-Up Time @ 25°C		To within :	To within $\pm 1 \times 10^{-7}$ of Fo in 2 min.				
atic	Warm-Up Current							
ij	Supply Current	Icc						
Specifications								
Sp	Output Signal		Sinewave/HCMOS/TTL					
ä	Rise/Fall Time	Tr/Tf						
ţij	Logic "0" Level	Vol						
Electrical	Logic "1" Level	Voh						
ш	Cymmotry	Sym						
	Output Load							
	Frequency Adjustment (Pin 1)			L				
	Tuning Slope			Positive				
	Input Impedance (Pin 1)			L				
	Phase Noise		AT-Cut SC-Cut		l	@ 10 MHz		
	1 Hz		-90 -80		dBc/Hz			
	10 Hz			-120 -115		dBc/Hz		
	100 Hz			-140 -140		dBc/Hz		
	1 kHz		-150 -145			dBc/Hz		
H	10 kHz		-155	-15	50	dBc/Hz		
=								
Environmental	Mechanical Shock	2000 g, 0.3 mS, ½ sine						
l E	Vibration	2000 Hz, 10 g						
l o	Storage Temperature	-55°C to +125°C						
اِڃَا	Hermeticity	Per MIL-STD-202, Method 112						
🗖	Solderability	EIAJ-STD-	002					
$ldsymbol{ld}}}}}}$								

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