



ADVANCED NOISE TECHNOLOGY

HXO178B

Low Noise OCVCXO

Engineered for ruggedness and reliability, the HXO178B has a solid record of service. The unit is available in a 3.0" high can for frequencies of 80 MHz and under. Above 80 MHz, a 4.0" high can is supplied. All units have a mechanical frequency adjustment to compensate for aging. The output is buffered for trouble free operation under any load. The HXO178B is perfect for a bench reference or as a replacement in legacy systems.



Features:

- Long Term Reliability
- Rugged Design
- Low Noise

Applications:

- High stability, low noise reference
- Microwave multiplier applications
- Legacy oscillator replacement

Standard Specifications:

Phase Noise:	100 Hz	-120 dBc/Hz
	1 KHz	-150 dBc/Hz
	10 KHz	-165 dBc/Hz
	100 KHz	-172 dBc/Hz
Output Power:	≥ +13 dBm (Sine wave) into 50 Ohms	
Frequency Stability vs. Temperature:	±2 x 10 ⁻⁸ , -20° C to +60° C	
Aging:	≤ 1 PPM/year	
Mechanical Tuning Adjustment:	±8 PPM	
Electrical Frequency Tuning (EFC):		
Voltage Range:	0 VDC, ±6 VDC	
EFC Range:	±5 PPM	
Modulation Rate:	1.5 K typical	
Slope:	Negative	
Harmonics:	-26 dBc	
Sub-Harmonics:	-26 dBc	
Spurious:	-60 dBc	
G Sensitivity:	5 x 10 ⁻⁹ /g	
Supply Voltage:	+15 VDC ±2%, Oscillator and Oven	
Supply Current:	345 ma typical at turn-on	
	160 ma typical at steady state	
Warm-up:	30 minute warm up	
Size:	2.0" X 2.0" X 4.0" LWH	

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