



# OA01 , OA02

SC Crystal  
Ultra high stability oven controlled crystal oscillator  
Applied in instrumentation, metrology

**Table1 Specifications**

Parameter		OA01	OA02
Standard Frequency		5MHz,10MHz	
Frequency Stability	vs Operation Temp. Range	$\pm 2 \times 10^{-9}$ , Stability Code is "2.9"	
	vs Vcc Change $\pm 5\%$	$\pm 2 \times 10^{-10}$	
	vs Load Change $\pm 10\%$	$\pm 2 \times 10^{-10}$	
	vs Aging	$\pm 5 \times 10^{-8}$ /year, $\pm 1.5 \times 10^{-10}$ /day @25 after 30 days operation	
Operation Temperature Range		-10~+55 , Temperature Range Code is "L"	
Supply Voltage		12V(option code 12), 15V(option code 15)	
Current Consumption		700mA max at Turn-on,250mA max after warm up at 25	
Short Term Stability(Allen Std Deviation)		$\pm 5 \times 10^{-12}$ / s	
Retrace After 24Hrs Off		$\pm 1 \times 10^{-8}$ after 60minutes on	
Output	Wave Form	Sine, 0dBm, Code is "S"	
	Load	50 $\Omega$	
	Harmonic Suppression	-30dB	
	Non-Harmonic Suppression	-70dBc	
SSB Phase Noise (10MHz, typical)		-115dBc@10Hz	-100dBc@10Hz
		-130dBc@100kHz	-120dBc@100kHz
		-150dBc@1kHz	-140dBc@1kHz
		-155dBc@10kHz	-145dBc@10kHz
Warm-up Time@25 Typical		$\pm 1 \times 10^{-8}$ after 15 minutes	$\pm 1 \times 10^{-8}$ after 60 minutes
Frequency Adjustment (from 0V to Vref.)		$\pm 5 \times 10^{-7}$	
Package		50A, 50B, 50A1, 50E	
Storage Temperature Range		-40~+85	

## OCXOs

### Part Numbering Key

SERIES	Supply Voltage	OUTPUT FORM	FREQ. STABILITY vs.TEMP	PACKAGE CODE	FREQUENCY
OA01	12=12V 15=15V	S=Sine	L=-10~+55 2.9= $\pm 2 \times 10^{-9}$	50A,50 A1,50E, 50B	
OA01	12	S	L2.9	50A	10.000MHz

Sample Part Numbers

**OA01-12S-L2.9-50A  
@10.000Mhz**

\* New Design, Not Available for Now.