

OVEN CONTROLLED CRYSTAL OSCILLATORS (OCXO)

9100 Series

Main applications: Communications equipment, Measuring instruments etc.

Features: 1. Excellent aging characteristics

2. Wide frequency range (9168A Series)

3. Anti-microphonic noise (9140A-BGE71, 9140A-CEE70)

Item \ Measuring Condition \ Model \ Spec. Code			9161A		9150A	9150B		9140A	
			C		Q	B		C	
			GQ00	FQ00	AA00	EE40	DE40	FA00	
Standard Nominal Frequency (MHz)			10						25
Supply Voltage			+30VDC		+24VDC	+12VDC			
Power Consumption			45W ^{MAX}		8.5W ^{MAX}	5W ^{MAX}		1.4W ^{MAX}	
Output Voltage			+10~+12dBm		0~+2dBm	1 Vrms ^{MIN}		0dBm ±1dB	
Load			50 Ω			1kΩ		50 Ω	
Operating Temp. Range			-55~85℃		0~50℃	-10~60℃		0~50℃	
Operable Temp. Range			-62~95℃		-10~60℃	-20~70℃		-10~70℃	
Frequency Stability	Short Term Stability	Δf/f(2,τ) 1sec	1×10 ⁻¹⁰		5×10 ⁻¹¹	5×10 ⁻¹⁰	1×10 ⁻¹⁰	—	
	Aging	After 24H(*1) or 48H(*2) or 240H(*3) operation	±1×10 ⁻⁸ /day (*2)		±5×10 ⁻⁹ /day (*2)	±2×10 ⁻⁸ /day (*1)	±2×10 ⁻⁸ /day (*1)	±5×10 ⁻⁸ /day (*2)	
			±5×10 ⁻⁸ /year (*2)		±2×10 ⁻⁷ /year (*2)	±1×10 ⁻⁷ /year (*1)	±5×10 ⁻⁷ /year (*1)	±5×10 ⁻⁷ /year (*3)	
	Temp. Charact.	Temp. Range	-55~85℃		0~50℃	-10~60℃		0~50℃	
		Tolerance	±1×10 ⁻⁷	±5×10 ⁻⁸	±2×10 ⁻⁸	±3×10 ⁻⁸	±1×10 ⁻⁸	±5×10 ⁻⁸	
	Supply Volt. Change	Condition	+30V±5%		+24V±10%	+12V±10%		±12V±5%	
		Specification	±5×10 ⁻⁸	±3×10 ⁻⁸	±1×10 ⁻⁸	±2×10 ⁻⁸	±5×10 ⁻⁸	±2×10 ⁻⁸	
	Vibration	Tot amp. 1.5 mm Freq. 10~55 Hz 3 planes/30 min each	±5×10 ⁻⁸				±5×10 ⁻⁸	±3×10 ⁻⁸	±5×10 ⁻⁸
	Shock	Natural Drop from 5 cm height, 3 planes/3 times each	±5×10 ⁻⁸				±5×10 ⁻⁸	±3×10 ⁻⁸	±5×10 ⁻⁸
Frequency Trim Range			By Internal Trimmer			±3×10 ⁻³ MHz			±1×10 ⁻³ MHz
Case Code			61A		50A	50B		40A-1	

(mm)

NO. 61A

NO. 50A

NO. 50B

NO. 40A-1

