www.DataSheet.in

T-50-05

OVEN CONTROLLED CRYSTAL OSCILLATORS (OCXO)

■9100 Series

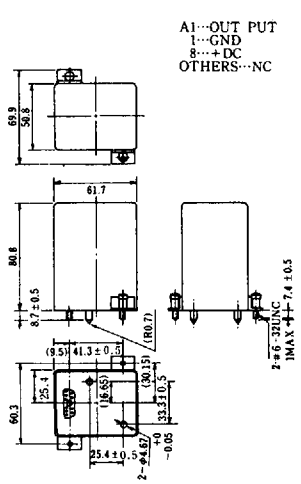
Main applications: Communications equipment, Measuring instruments etc.

Features: 1. Excellent aging characteristics
2. Wide frequency range (9168A Series)
3. Anti-microphonic noise (9140A-BGE71, 9140A-CEE70)

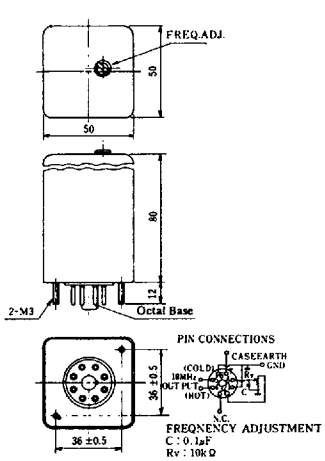
Item / Measuring Condition		Model	9161A		9150A	9150B		9140A
		Spec. Code	C		Q	B		C
			GQ00	FQ00	AA00	EE40	DE40	FA00
Standard Nominal Frequency (MHz)			10					25
Supply Voltage			+30VDC		+24VDC	+12VDC		
Power Consumption			45W MAX		8.5W MAX	5W MAX		1.4W MAX
Output Voltage			+10～+12dBm		0～+2dBm	1 Vrms MIN		0dBm±1dB
Load			50Ω			1kΩ		50Ω
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	△f/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	$\pm1\times10^{-9}$/day (*2)		$\pm5\times10^{-10}$/day (*2)	$\pm2\times10^{-8}$/day (*1)	$\pm2\times10^{-9}$/day (*1)	$\pm5\times10^{-9}$/day (*2)
			$\pm5\times10^{-8}$/year (*2)		$\pm2\times10^{-8}$/year (*2)	$\pm1\times10^{-7}$/year (*1)	$\pm5\times10^{-8}$/year (*1)	$\pm5\times10^{-8}$/year (*3)
	Temp. Charact.	Temp. Range	−55～85℃		0～50℃	−10～60℃		0～50℃
		Tolerance	$\pm1\times10^{-7}$	$\pm5\times10^{-8}$	$\pm2\times10^{-9}$	$\pm3\times10^{-8}$	$\pm1\times10^{-8}$	$\pm5\times10^{-8}$
	Supply Volt Change	Condition	+30V±5%		+24V±10%	+12V±10 %		±12V±5%
		Specification	$\pm5\times10^{-9}$	$\pm3\times10^{-9}$	$\pm1\times10^{-9}$	$\pm2\times10^{-8}$	$\pm5\times10^{-9}$	$\pm2\times10^{-8}$
	Vibration	Tot amp. 1.5 mm Freq. 10～55 Hz 3 planes/30 min each	$\pm5\times10^{-9}$			$\pm5\times10^{-8}$	$\pm3\times10^{-8}$	$\pm5\times10^{-8}$
	Shock	Natural Drop from 5 cm height, 3 planes/3 times each	$\pm5\times10^{-9}$			$\pm5\times10^{-8}$	$\pm3\times10^{-8}$	$\pm5\times10^{-8}$
Frequency Trim Range		By Internal Trimmer	$\pm3\times10^{-7}$ MIN			$\pm1\times10^{-6}$ MIN		
Case Code			61A		50A	50B		40A-1

(mm)

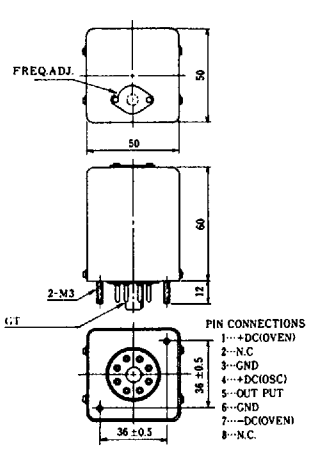
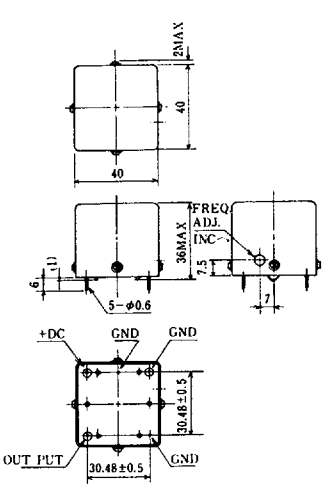
NO.61A



NO.50A



NO.50B



NO.40A-1