

## OVEN CONTROLLED CRYSTAL OSCILLATOR

<b>Features:</b>	High stability vs. temperature up to $\pm 3E-8$	Frequency range: 1—40M
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**OPTION GUIDE:** OX220---58---K---12---JT---[SIN]---13M

Temperature stability	Aging	Output	Supply Voltage
38: $\pm 3E-8$ 58: $\pm 5E-8$ 17: $\pm 1E-7$ 27: $\pm 2E-7$ 37: $\pm 3E-7$ 57: $\pm 5E-7$	K: $\pm 1E-6$ /year J: $\pm 5E-7$ /year I: $\pm 3E-7$ /year H: $\pm 2E-7$ /year	SIN HCMOS	5: 5V $\pm 5\%$ 12: 12V $\pm 5\%$

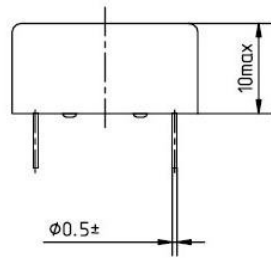
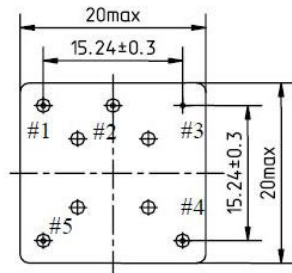
Temperature choice

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	W	X
-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+25	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

### SPECIFICATION

<b>Output</b>	SIN (Clipped)	Square Form
<b>Duty cycle</b>	×	40...60%
<b>Short term stability per 1 sec, typical</b>	$< 1E-10$	
<b>Daily fluctuation</b>	$\leq \pm 0.05\text{ppm}$	
<b>Frequency stability vs. load changes</b>	$< \pm 1E-8 @ 50 \Omega \pm 10\%$	$< \pm 1E-8 @ 1k \Omega \pm 10\%$
<b>Frequency stability vs. power supply changes</b>	$< \pm 1E-8 @ V_{cc} \pm 10\%$	
<b>Peak current during warm-up @ 25°C</b>	$< 500 \text{ mA}$	
<b>Frequency pulling range</b>	$> \pm 5E-6 @ 0.5V \text{ --- } 4.5V$	
<b>Linearity</b>	$\pm 10\%$	
<b>Phase noise, typical for 10M</b>		
<b>1 Hz</b>	-80 dBc/Hz	
<b>10 Hz</b>	-115 dBc/Hz	
<b>100 Hz</b>	-135 dBc/Hz	
<b>1k Hz</b>	-145 dBc/Hz	
<b>10k Hz</b>	-150 dBc/Hz	
<b>Harmonic suppression</b>	15dB	×
<b>Spurious suppression</b>	70dB	
<b>Input impedance</b>	100k $\Omega$	
<b>Storage temperature range</b>	-40...+85°C	
<b>Other requests:</b>		

**Package:**



**Pin configuration:**

1. Power supply (Vs)
2. Frequency output
3. GND
4. Frequency control input (Vc)
5. N.C.

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Pin diameter will be from 0.5—0.8mm

**Note:**

Not all combinations are available, any requests, please consult factory