

## OVEN CONTROLLED CRYSTAL OSCILLATOR

<b>Features:</b>	High stability vs. temperature up to $\pm 5E-8$	Frequency range: 1—40M
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**OPTION GUIDE:** OX21-----58-----K-----12-----JT-----[SIN]-----13M

Temperature stability	Aging	Output	Supply Voltage
58: $\pm 5E-8$ 17: $\pm 1E-7$ 27: $\pm 2E-7$ 37: $\pm 3E-7$ 57: $\pm 5E-7$ 56: $\pm 5E-6$	K: $\pm 1E-6$ /year J: $\pm 5E-7$ /year I: $\pm 3E-7$ /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

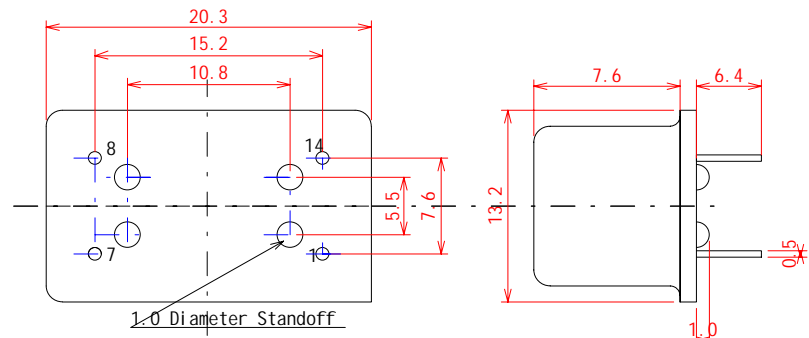
### SPECIFICATION

Output	SIN (Clipped)	Square Form
Duty cycle	×	40...60%
Short term stability per 1 sec, typical	$< 1E-10$	
Daily fluctuation	$\leq \pm 0.05$ ppm	
Frequency stability vs. load changes	$< \pm 1E-8$ @ 50 $\Omega$ $\pm 10\%$	$< \pm 1E-8$ @ 1k $\Omega$ $\pm 10\%$
Frequency stability vs. power supply changes	$< \pm 1E-8$ @ Vcc $\pm 10\%$	
Peak current during warm-up @ 25°C	$< 500$ mA	
Frequency pulling range	$> \pm 5E-6$ @ 0.5V --- 4.5V	
Linearity	$\pm 10\%$	
Phase noise, typical for 10M		
1 Hz	-60 dBc/Hz	
10 Hz	-90 dBc/Hz	
100 Hz	-120 dBc/Hz	
1k Hz	-130 dBc/Hz	
Harmonic suppression	15dB	×
Spurious suppression	70dB	
Input impedance	100k $\Omega$	
Storage temperature range	-40...+85°C	

**Package:**

**Pin configuration:**

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



Note:

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