

## SMD OVEN CONTROLLED CRYSTAL OSCILLATOR

<b>Features:</b>	High stability vs. temperature up to $\pm 5E-9$	Frequency range: 10—40M
------------------	---	-------------------------

**OPTION GUIDE:** OX22S---58---K---12---JT---[HCMOS]---13M

Temperature stability	Aging	Output	Supply Voltage
59: +/-5E-9 18: +/-2E-8 28: +/-2E-8 58: +/-5E-8 17: +/-1E-7 37: +/-3E-7	K: +/-1E-6/year J: +/-5E-7/year I: +/-3E-7/year H: +/-2E-7/year G: +/-1E-7/year F: +/-5E-7/year	HCMOS	5: 5V+/-5% 3.3: 3.3V+/-5%

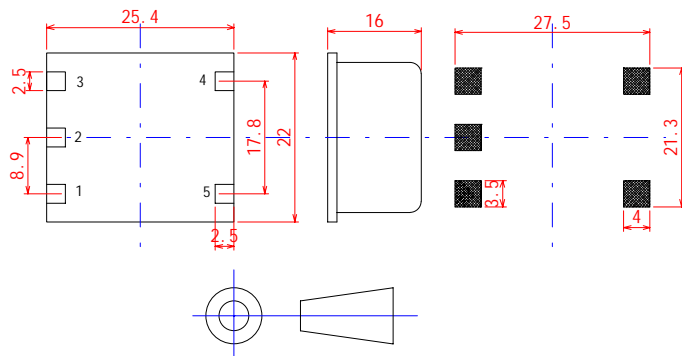
Temperature choice

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>	HCMOS	
<b>Load</b>	10k Ohms	
<b>Short term stability per 1 sec, typical</b>	<2E-11	
<b>Frequency stability vs. load changes</b>	< $\pm 3E-9$	
<b>Frequency stability vs. power supply changes</b>	< $\pm 3E-9$	
<b>Peak current during warm-up @ 25°C</b>	<800 mA	
<b>Warm-up time</b>	< 3min. within +/-1E-7 @ 25 ° C	
<b>Frequency pulling</b>	Range	> $\pm 5E-7$
	With external voltage	0V to 4.5V (2.8V for 3.3V supply option)
	With external potentiometer	20k Ohms
<b>Reference voltage</b>	+4.5V (+2.8V)	
<b>Slope</b>	Positive	
<b>Phase noise, typical for 10M</b>		
<b>1 Hz</b>	-90 dBc/Hz	
<b>10 Hz</b>	-120 dBc/Hz	
<b>100 Hz</b>	-140 dBc/Hz	
<b>1k Hz</b>	-145 dBc/Hz	
<b>10k Hz</b>	-150 dBc/Hz	
<b>Storage temperature range</b>	-55...+85°C	

### Package:



### Pin configuration:

- Pin #1: NC
- Pin #2: NC or REF
- Pin #3: Supply Voltage
- Pin #4: Output
- Pin #5: GND

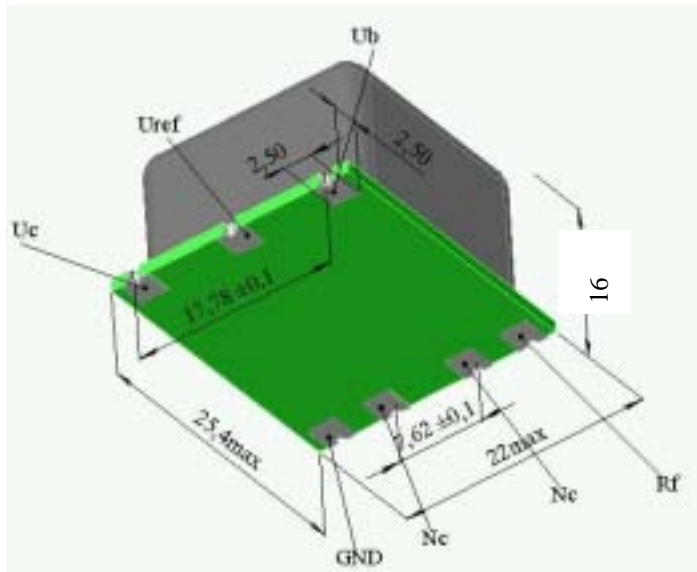
HM International

Demer 26 B-2230 Herselt BELGIUM

Tel. +32(0)14548955 Fax. +32(0)14549443

email : info@hminernational.be www.hminernational.be

Picture:



Note:

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