

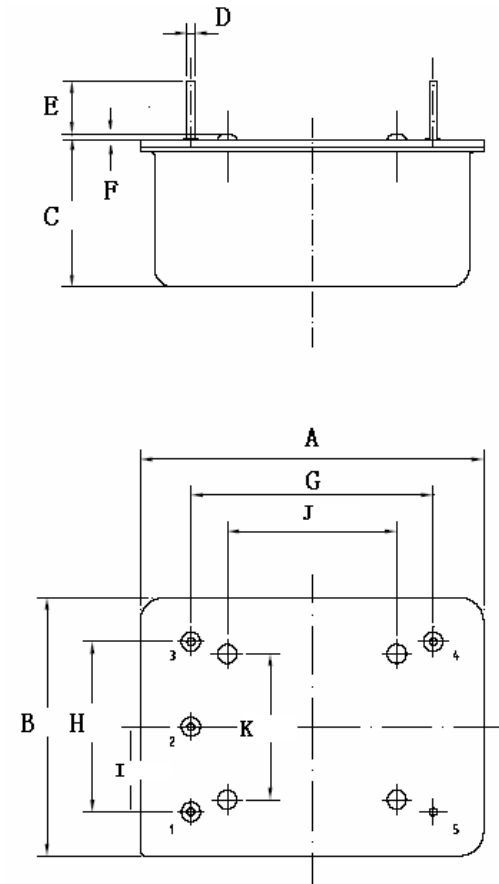
Oven Controlled Crystal Oscillator Specification

Part No.: OX-STD-13M

Detail Specification

Nominal Frequency	13.000MHz
Supply Voltage	+12V \pm 10%
Supply Current	Warm-up: \leq 300mA Steady state: \leq 150mA @ +25°C
Frequency Tolerance	\leq \pm 0.1ppm / $V_c = +3.0V$ (+25°C)
Frequency Stability	\pm 25ppb @ -40°C to +70°C \pm 1ppb @ 50 Ohms \pm 5% \pm 2ppb @ +12V \pm 5%
Aging (after 30 days power on)	$< \pm$ 0.7ppb/day $< \pm$ 0.1ppm/first year $< \pm$ 0.4ppm/10 years
Short-term Stability	< 0.02 ppb/s
Warm-up	$< \pm$ 10ppb (10 minutes power on, refer to 1 hour power on)
Voltage Control	Control range: \pm 0.7 ~ 1.0ppm Control voltage: 3.0V \pm 3.0V Slope: Negative Linearity: $< 15\%$ Input impedance: $> 100K$ Ohms Modulation bandwidth: $> 10KHz$
Output	Sine Level: +9 \pm 2dBc Load: 50 Ohms
Harmonics	< -30 dBc
Spurious	< -80 dBc
Phase Noise	1Hz: -90dBc/Hz 10Hz: -120dBc/Hz 100Hz: -140dBc/Hz 1kHz: -150dBc/Hz 10kHz: -155dBc/Hz
Reference Voltage	+8.0V \pm 5%
Storage Temperature	-50°C to +105°C
Package Size	36.1mm \times 27.2mm \times 16mm

Package and Pin Connections



Pin Connections:

- #1: VC
- #2: Reference Voltage
- #3: Supply Voltage
- #4: Output
- #5: GND

Marking:

13M

STD

S/N: xxxx

ww/yy

Symbol	Dimension (mm)	
	Min	Max
A		36.2
B		27.3
C		16
D	0.6	0.75
E	5.0	6.2
F	0.6	0.8
G	25.2	25.6
H	17.6	18.0
I	8.89	8.91
J	17.78 nominal	
K	15.24 nominal	