

ACT OCX014

Compatible with Eu Directive
 2002/EC - RoHS



FEATURES

- Stabilities to ± 0.05 PPM (AT CUT)
- Low Aging
- Voltage Controlled Frequency Adjustment
- Measurement Equipment

APPLICATIONS

- SDH/SONET
- ATM
- WLL
- SC Cut OXCO Please

Enquire

SPECIFICATIONS Frequency Range

1.0 ~

100MHz

Frequency Accuracy (Adjustment 25°C)

± 1 PPM (Centre control voltage)

Frequency Stability vs Temperature

(See Table 1)

Aging

First year ± 0.5 PPM, 10 years ± 3 PPM

Output Type and Load Characteristics

(See Table 2)

Frequency Stability vs Load

± 0.05 PPM vs $\pm 10\%$ load change

Supply Voltage

+3.3VDC, +5.0VDC

Frequency Stability vs Voltage

± 0.05 PPM vs $\pm 5\%$ voltage change

Supply Consumption

1.5W (max.) warm-up; 0.5W (max.) static

Warm-up Time

± 0.1 PPM, <1 min.

Adjustable Frequency Range

± 7.0 PPM

Control Voltage Range

0~5V

Slope

Positive

Linearity

$\pm 10\%$

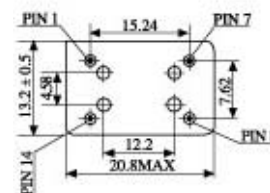
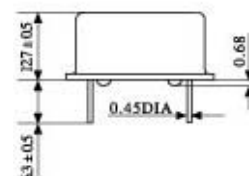
Phase Noise(10MHz)

10Hz, -100dBc/Hz

100Hz, -120dBc/Hz

1kHz, -135dBc/Hz

10kHz, -145dBc/Hz



(Unit: mm)

PIN FUNCTION:

PIN1 – Control Voltage

PIN7 – GND/Case

PIN8 – Output

PIN14 – Power Supply

FREQUENCY STABILITY vs TEMPERATURE – TABLE 1

(Applies to frequencies < 20MHz & to 5v0 supply without voltage control. For frequencies > 20MHz & 3v3 stabilities will be lower –Please enquire)

Frequency Stability vs Temperature	Temperature Range
± 0.05 PPM	0 - +50°C
± 0.30 PPM	-20 - +70°C
± 0.50 PPM	-40 - +75°C

OUTPUT TYPE AND LOAD CHARACTERISTICS – TABLE 2

Output Waveform	Frequency Range	Oscillation State	Output Characteristics
Clipped Sine Wave	8MHz - 30MHz 20MHz - 100MHz	F: Fundamental O: Overtone	Load: 10k Ω /10pF Output level: >1Vp-p
TTL	1MHz - 30MHz 20MHz - 100MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL gates "1" level: >+2.4VDC; "0" level: <+0.2VDC Duty cycle: 45/55 Rise/fall time: <6ns
HCMOS	1MHz - 30MHz 20MHz - 100MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL/HCMOS "1" level: >+4.3VDC; "0" level: <+0.5VDC Duty cycle: 45/55 Rise/fall time: <6ns
ACMOS	10MHz - 30MHz 20MHz - 100MHz	F: Fundamental O: Overtone	Load: Max. 10 low power consumption TTL/ACMOS "1" level: >+4.3VDC; "0" level: <+0.5VDC Duty cycle: 45/55 Rise/fall time: <6ns

Please note that all parameters can not necessarily be specified in one device.

Customer to specify : Frequency, Output, Voltage, Stability, and Operating Temperature

In line with our ongoing policy of product improvement and evolution the above specification may be subject to change without notice

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For quotations or further information, please contact us at :

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