



Voltage Controlled Oscillators

Hybrid Crystal 1.0MHz to 45.0MHz



ELECTRICAL SPECIFICATIONS

Operating Temperature: 0°C to + 70°C. (Contact factory for

extended temperature range).

Frequency Stability: .01% Standard (.0025% + .005%

optional).

Control Voltage Range: 0.5 to 4.5 V. Input Voltage: $+ 5VDC \pm 0.5V$. Output Load: 15pF/10 TTL loads.

Pulling Range: -1 (± 100PPM Min.), -2 (± 200PPM Min.).

Linearity: ± 10%.

FEATURES

- HCMOS/TTL compatible.
- · Tight stability.
- · Hermetically sealed package.

MECHANICAL SPECIFICATIONS

Marking Ink: Epoxy, solvent resistant.
Hermetically Sealed Package: Leak rate less than

2 x 10⁻⁸ atmosphere cc/sec. of helium.

Terminal Solderability: A minimum of 95% coverage after

solder dip.

ENVIRONMENTAL SPECIFICATIONS

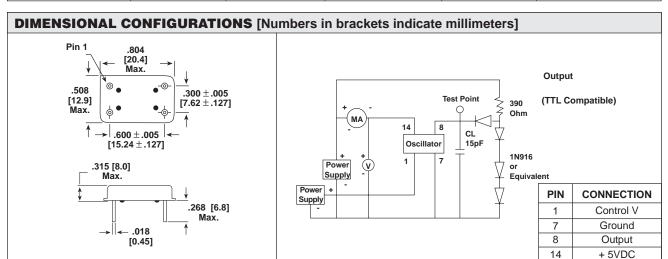
Temperature Cycle: - 55°C to + 85°C, 3 cycles.

Shock: 1000g, 0.35 millisecond, 1/2 sine wave, 3 shocks

each plane.

Vibration: .06 D.A., 10 - 55Hz, 20g, 55 - 200Hz. **Humidity:** 85% relative humidity at + 85°C, 240 hours.

STANDARD ELECTRICAL SPECIFICATIONS					
FREQUENCY RANGE (MHz)	INPUT CURRENT (mA)	WAVEFORM SYMMETERY @ 1.4VDC	RISE AND FALL TIME From Zero to One (nS) (Max.)	"ZERO" LEVEL SINKING 16mA (Max.)	"ONE" LEVEL SOURCING 0.4mA (Min.)
1.0 to 24.0	30	40/60	5	0.4	2.4
24.1 to 30.0	40	40/60	5	0.4	2.4
30.1 to 45.0	50	40/60	5	0.4	2.4



PART MARKING

- Model
- Frequency
- Pin identifier
- Vishay Dale

HOW TO ORDER XOVC-23 - 1 27M MODEL FREQUENCY/ PULLABILITY FREQUENCY/MHz STABILITY AA = .0025% (25PPM) $1 = \pm 100 PPM$ A = .005% (50PPM) $2 = \pm 200PPM$ B = .01% (100PPM)NOTE: Contact factory for other models, frequencies, stabilities and temperature ranges.