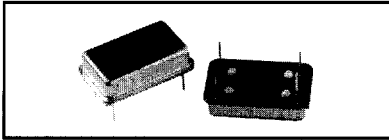




Voltage Controlled Oscillators

*Hybrid Crystal
1.0MHz to 100MHz*



FEATURES

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

STANDARD ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE (MHz)	INPUT CURRENT mA (Max.)	WAVEFORM SYMMETRY @ 1.4 VDC	RISE & FALL TIME From Zero to One (Max.)	"ZERO" LEVEL SINKING 16mA (Max.)	"ONE" LEVEL SOURCING 0.4mA (Min.)
1.0 to 20	30	40/60	10ns	0.4	2.4
20.001 to 100	40	40/60	5ns	0.4	2.4

ELECTRICAL SPECIFICATIONS

Operating Temperature: 0°C to + 70°C (- 40°C to + 85°C optional).
Frequency Tolerance: A = (\pm 20PPM), Vc = 2.5V, AA = (\pm 10PPM), Vc = 2.5V.
Frequency Stability: A = 50PPM standard, AA = 25PPM optional.
Control Voltage Range: 0.5 to 4.5V.
Input Voltage: + 5 VDC \pm 0.5V.
Output Load: 15pF/10 TTL loads.
Pulling Range: - 1 (\pm 100PPM min.), - 2 (\pm 200PPM min.).
Linearity: \pm 10%.

MECHANICAL SPECIFICATIONS

Marking Ink: Epoxy, solvent resistant.
Hermetically Sealed Package: Leak rate less than 2×10^{-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 - 2000Hz.
Humidity: 85% relative humidity at + 85°C, 240 hours.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

PIN	CONNECTION
1	Control V
7	Ground
8	Output
14	+ 5 VDC

PART MARKING

- Model
- Frequency
- Pin identifier
- Vishay Dale

HOW TO ORDER

XOVC-23	A	R	- 1	27M
MODEL	TOLERANCE/STABILITY	OTR	PULLABILITY	FREQ./MHz
	A = 20PPM/50PPM AA = 10PPM/25PPM	Blank = 0° to + 70°C R = - 40°C to + 85°C	- 1 = \pm 100PPM - 2 = \pm 200PPM	

Contact factory for other models, frequencies, stabilities and temperature ranges.