



MONITOR PRODUCTS COMPANY INC

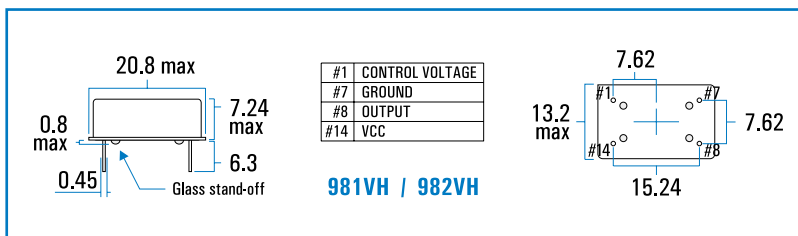
981VH M 982VH

Voltage-Controlled Crystal Oscillators

Monitor Products' 981VH and 982VH VCXOs are TTL/HCMOS compatible and are manufactured using the latest hybrid technology. Hermetically-sealed packages offer excellent resistance to environmental extremes, including shielding to minimize RF radiation.

ELECTRICAL SPECIFICATIONS

Frequency Range	1.5 ~ 70.0 MHz
Supply Voltage	3.3 Vdc \pm 0.3 V
Frequency Calibration @ 251C	\pm 50 ppm (\pm 100 ppm avail)
Operating Temperature Range	01C ~ 701C (-401C ~ 851C avail)
Storage Temperature Range	-551C ~ 1251C
Freq Stability over Temp Range	\pm 50 ppm max
Frequency Pullability	981VH = \pm 100 ppm min 982VH = \pm 200 ppm min
Load Capacitance	15 pF HCMOS (10 TTL)
Input Current	40 mA max
Symmetry (@ 2.5 Vdc)	60/40% max (55/45% avail)
Rise and Fall Time	8 nS max @ 0.33 ~ 2.97 Vdc
Logic 0 Level	Vcc x 0.33 V max
Logic 1 Level	Vcc x 2.97 V min
Linearity	\pm 10% max
Aging Rate	< 5 ppm/year
Coefficient	Positive



Monitor Products has a proven track record as a pioneer manufacturer in the frequency control market. If our extensive selection of standard and engineered crystals and oscillators does not meet your spec, we will work with you towards a customized solution.

Monitor Products is one of over 90 wholly-owned subsidiaries of **Bowthorpe plc**, an international technology group focused on the design, development, manufacture and marketing of specialist electronic products.

www.bowthorpe.com

Monitor Products Company Inc reserves the right to make changes to its products and product specifications without notice. No liability is assumed as a result of their use or application.

MONITOR PRODUCTS COMPANY INC

Designers and manufacturers of quality frequency control devices since 1927

[10/18/99]

A **BOWTHORPE** company



CORPORATE OFFICE / FACTORY

502 Via del Monte, Oceanside, CA 92054
Tel: 760 433-4510 Fax: 760 434-0255

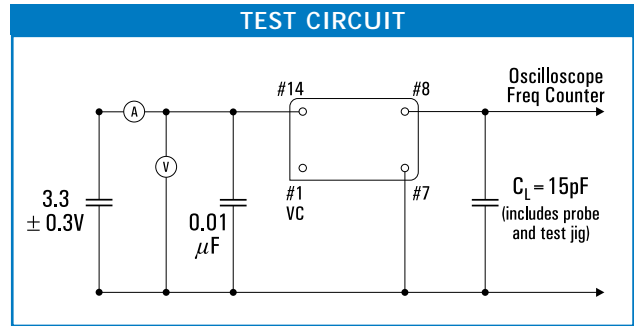
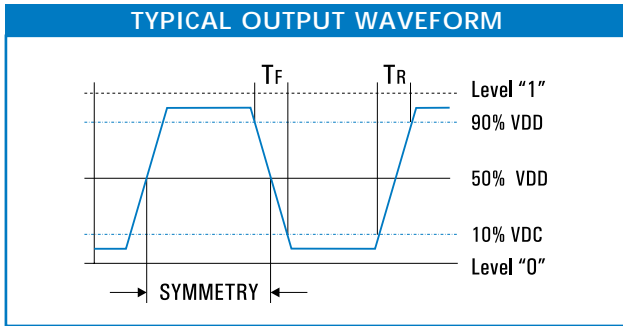
REGIONAL SALES OFFICE

3415 Custer Road, Suite 117, Plano, TX 75023
Tel: 972 758-8687 Fax: 972 758-7574

www.monitor-products.com

ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

Operating Temp Range	01C to 701C standard
Storage Temp Range	-551C to 1251C
Vibration	MIL-STD-202 Method 204, 35G, 50 to 2000 Hz
Shock	MIL-STD-202 Method 213B Test Cond E, 1000G, 1/2 Sine Wave
Humidity	85% RH, 851C, 48 Hours
Hermetic Seal	Leak Rate 2×10^{-8} ATM-cm ³ /sec max
Solderability	MIL-STD-202 Method 208E
MIL-PRF-55310	Can be manufactured to meet MIL-PRF-55310



HOW TO ORDER

	SERIES	SYMMETRY	FREQUENCY STABILITY	TEMPERATURE RANGE	PACKAGING	FREQUENCY
	981VH = ±100 ppm 982VH = ±200 ppm	1 = 60/40% 2 = 55/45%	B = ± 100 ppm C = ± 50 ppm*	2 = 01C ~ 701C* 5 = -401C ~ 851C	A = Bulk (anti-static tubes)	
Sample Part Numbers						
981VH2C2A @ 32.328 MHz	981VH	2	C	2	A	32.328
982VH1B5A @ 60.000 MHz	982VH	1	B	5	A	60.000

* Standard

Call factory for additional options. Use full descriptive part number when ordering. Parts will be marked with series and frequency only.

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