



MONITOR PRODUCTS COMPANY INC

970T M 975T

Low-Cost, Full-Size & Half-Size, TTL-compatible Clock Oscillators

Monitor Products' 970T and 975T series of full-size and half-size clock oscillators combine state-of-the-art, thick film, hybrid technology with precision manufacturing, resulting in products of



unsurpassed accuracy and reliability. Their all-metal, resistance-welded cases ensure environmental protection and shielding to minimize EMI/RFI.

ELECTRICAL SPECIFICATIONS

Frequency Range	1.0 ~ 100.0 MHz
Frequency Stability	± 100 ppm standard (± 25 ppm available)
Supply Voltage	5.0 VDC ± 0.5 V
Operating Temperature Range	01C ~ 701C standard (-551C ~ 1251C available)
Load Capacitance	10 TTL
Symmetry	60%/40% @ 3 V _{cc} max
Input Current	1.0 ~ 25.0 MHz : 30 mA 25.1 ~ 70.0 MHz : 70 mA 70.1 ~ 100.0 MHz : 80 mA
Rise & Fall Time	1.0 ~ 25.0 MHz : 10 nS 25.1 ~ 70.0 MHz : 5 nS 70.1 ~ 100.0 MHz : 4 nS
Logic 0 Level	1.0 ~ 25.0 MHz : + 0.4 V 25.1 ~ 100.0 MHz : + 0.5 V
Logic 1 Level	+ 2.4V

FEATURES

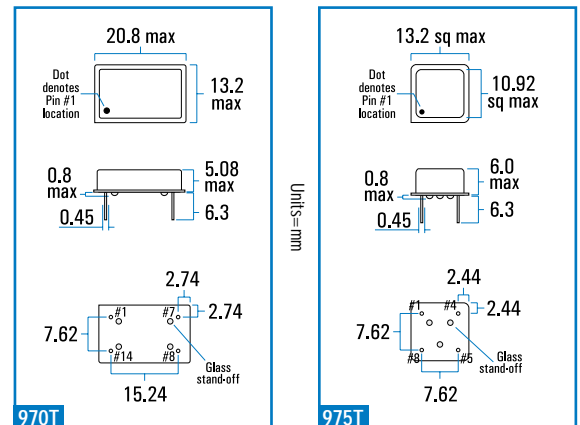
- M Low power consumption
- M Surface mount option
- M Independent dual outputs
- M Tristate gates

APPLICATIONS

- M Systems clock
- M Communications equipment
- M Computer applications
- M Disk drives
- M Cameras
- M Measuring instruments

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 70 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

[11.15.99]

A BOWTHORPE company

CORPORATE OFFICE / FACTORY

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

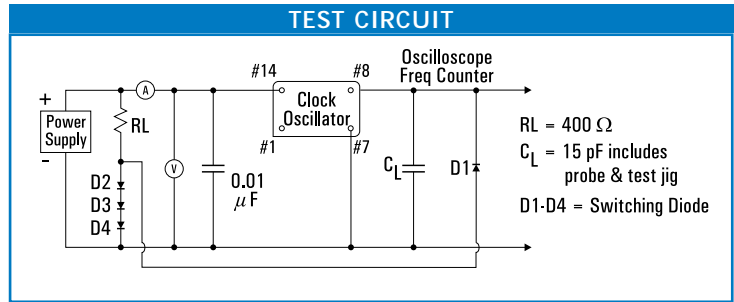
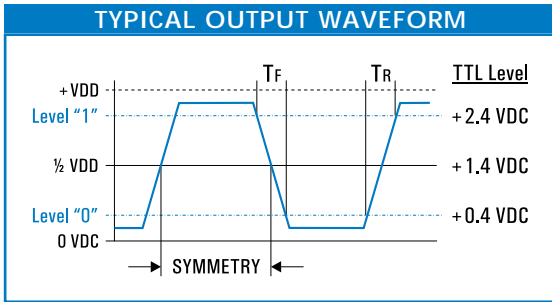
REGIONAL SALES OFFICE

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

www.monitor-products.com

ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

Operating Temperature Range	01C ~ 701C
Storage Temperature Range	-551C ~ 1251C
Vibration	MIL-STD-202F, Method 204, 35G, 50 to 2000 Hz
Shock	MIL-STD-202F 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
Reflow Solderability	2601C, 10 secs max
Solderability	MIL-STD-202F, Method 208E



HOW TO ORDER

	SERIES	SYMMETRY	FREQUENCY STABILITY	TEMPERATURE RANGE	PACKAGING	FREQUENCY (MHz)
	970T or 975T			2 = 01C ~ 701C*		
		1 = 60%/40%*	B = 100ppm* C = 50ppm E = 25ppm		A = Anti-static insertion tubes* X = Customer spec	
Sample Part Numbers:						
970T1B2A @ 14.31818 MHz =	970T	1	B	2	A	14.31818
975T1E2A @ 46.0 MHz =	975T	1	E	2	A	40.0

* 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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