

Designing and manufacturing innovative frequency control devices since 1927

Full-Size and Half-Size, TTL-Compatible Clock Oscillators 970T • 975T

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.

FEATURES

- Low power consumption
- Surface mount options
- Tristate gates
- Independent dual outputs

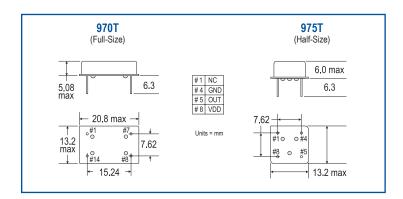
APPLICATIONS

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



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.

ELECTRICAL SPECIFICATIONS	970T Full-size	975T Half-size
Frequency Range	1.0 ~ 100.0 MHz	
Frequency Stability	\pm 100 ppm std	(\pm 25 ppm avail)
Supply Voltage	5.0 VDC ± 0.5 V	
Operating Temperature Range	0°C ~ 70°C sta (extended temp rang	andard ges avail - call for other options)
Load Capacitance	10 TTL	
Symmetry	60%/40% @ ½	2 VDD max
Input Current (MHz: mA max)	1.0 ~ 25.0 M 25.1 ~ 70.0 M 70.1 ~ 100.0 M	-
Rise & Fall Time (MHz: nS max)	1.0 ~ 25.0 M 25.1 ~ 70.0 M 70.1 ~ 100.0 M	ИHz: 5 mA
Logic 0 Level (MHz: V max)	1.0 ~ 25.0 M 25.1 ~ 100.0 M	ИНz: +0.4 V ИНz: +0.5 V
Logic 1 Level (min)	+2.4V	



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.

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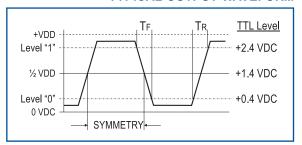


970T • 975T

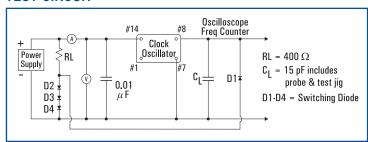
ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

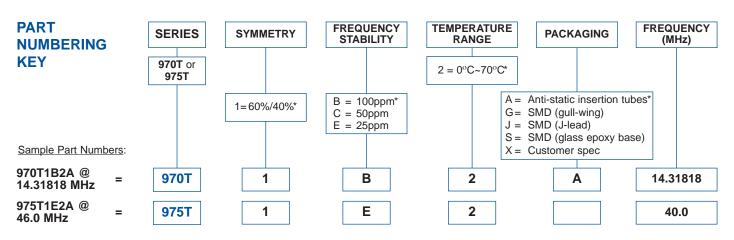
Oper Temp Range	0°C~70°C	
Storage Temp Range	-55°C~125°C	
Vibration	MIL-STD-202F, Method 204, 35G, 50 to 2000 Hz	
Shock	MIL-STD-202F Method 213B, Test Cond E, 1000G, 1/2 Sine Wave	
Humidity	85% RH, 85°C, 48 Hours	
Hermetic Seal	Leak Rate 2 x 10 ⁻⁸ ATM-cm ³ /sec max	
Reflow Solderability	260°C, 10 secs max	
Solderability	MIL-STD-202F, Method 208E	

TYPICAL OUTPUT WAVEFORM



TEST CIRCUIT





^{*} 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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