



MONITOR PRODUCTS COMPANY INC

970T • 975T

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.

FEATURES

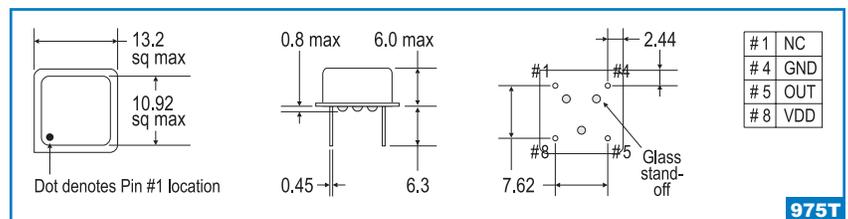
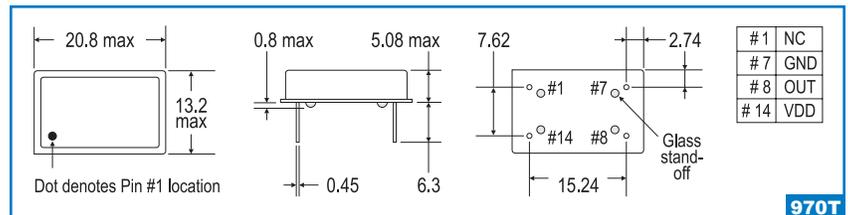
- Low power consumption
- Tristate gates
- Surface mount options
- Independent dual outputs

APPLICATIONS

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

ELECTRICAL SPECIFICATIONS

| | 970T Full-size | 975T Half-size |
|-----------------------------|---|-------------------|
| 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 | 0°C ~ 70°C standard (extended temp ranges avail - call for other options) | |
| Load Capacitance | 10 TTL | |
| Symmetry | 60%/40% @ ¼ Vcc max | |
| Input Current (max) | 1.0 ~ 25.0 MHz : 30 mA 25.1 ~ 70.0 MHz : 70 mA 70.1 ~ 100.0 MHz : 80 mA | |
| Rise & Fall Time (max) | 1.0 ~ 25.0 MHz : 10 nS 25.1 ~ 70.0 MHz : 5 nS 70.1 ~ 100.0 MHz : 4 nS | |
| Logic 0 Level (max) | 1.0 ~ 25.0 MHz : +0.4 V 25.1 ~ 100.0 MHz : +0.5 V | |
| Logic 1 Level (min) | +2.4V | |



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 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



CORPORATE OFFICE / FACTORY

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

Regional Sales Office

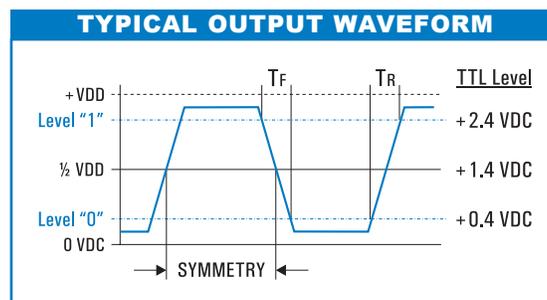
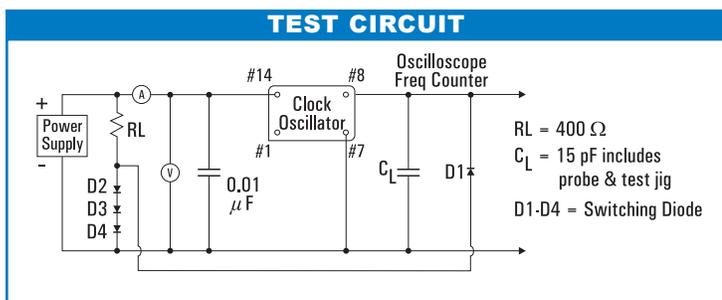
3415 Custer Road, Suite 103, Plano, TX 75023 Tel: 972 758-8687 Fax: 972 758-7574

Designers and manufacturers of innovative frequency control devices since 1927

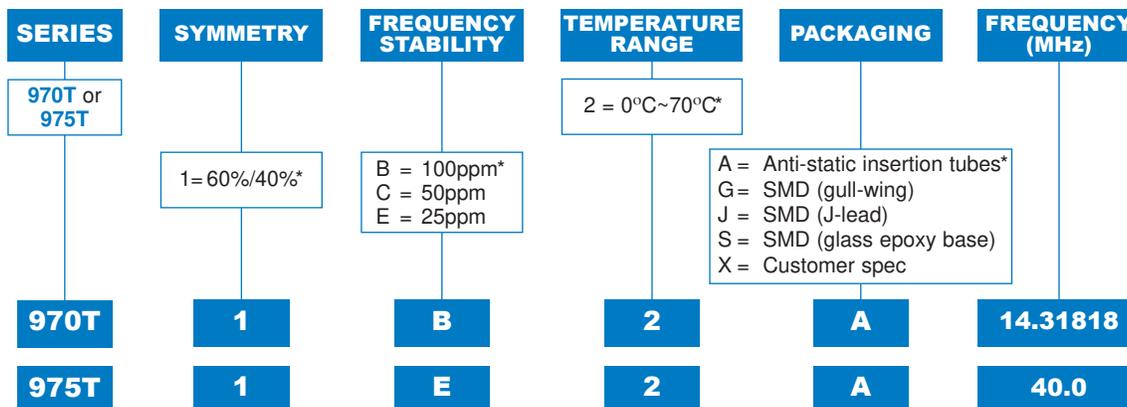
www.monitor-products.com

ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

| | |
|------------------------------------|--|
| Operating Temperature Range | 0°C~70°C |
| Storage Temperature 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 2×10^{-8} ATM-cm ³ /sec max |
| Reflow Solderability | 260°C, 10 secs max |
| Solderability | MIL-STD-202F, Method 208E |



PART NUMBERING KEY



Sample Part Numbers:

970T1B2A @ 14.31818 MHz =

975T1E2A @ 46.0 MHz =

* 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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