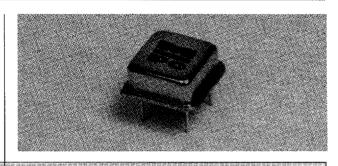


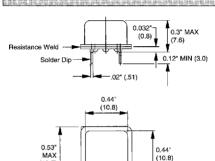
MONITOR PRODUCTS

975H

HIGH SPEED CMOS CLOCK OSCILLATORS (1/2 SIZE)

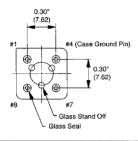


PACKAGE DIMENSIONS



975H

PIN 1. N.C. PIN 5. OUT PIN 4. **GND** PIN 8. **VDD**



ELECTRICAL SPECIFICATIONS

Frequency Range

0.53" MAX

- Frequency Stability
- **Operating Temperature Range**
- Storage Temperature Range
- Supply Voltage
- Input Current
- Symmetry
- Rise and Fall Time
- Start Up Time
- Start Up Voltage
- Logic "0" Level
- Logic "1" Level

- 1.0 MHz to 100 MHz
- ±0.01% (100ppm)
- 0°C to 70°C
- -55°C to 125°C
- +5 VDC ± 0.5 V
- 15 mA (max)
- 55/45% (max)
- 5 nS (typ), 10 nS (max)
- 5.0 mS (max)
- 3.0 V (max)
- 0.4 V (max)
- 4.5 V (min)

DRIVING ABILITY FOR MOS LOAD

FOR TTL LOAD

CL (max) = 50 pF

FANOUT = 10 LS-TTL

Soldering Temperature Limits: 260° ± 5°C for 10 Seconds.

FEATURES

- FULL PERFORMANCE IN HALF SIZE PACKAGE
- RUGGED RESISTANCE WELD **PACKAGE**
- LOW PROFILE
- LOW POWER CONSUMPTION
- SUPERIOR QUALITY
- ADVANCED THICK FILM **TECHNOLOGY**
- SURFACE MOUNT OPTION

The MONITOR 975H clock oscillators are manufactured using advanced thick film technology and feature high performance with reliable operation. An all metal, resistance welded package ensures environmental protection and shielding to minimize EMI/RFI. The 975H is capable of being wave soldered. Enable/Disable and Enable Tri-State features are also available.

MONITOR PRODUCTS also offers full size clock oscillators in LSTTL. HCMOS and ECLin the following configurations:

- INDEPENDENT DUAL OUTPUTS
- **DUAL OUTPUT DIVIDE BY 2**
- **DUAL OUTPUT DIVIDE BY 4**
- **ENABLE/DISABLE**
- TRISTATE GATE
- **COMPLIMENTARY OUTPUTS**
- SURFACE MOUNTING

MONITOR PRODUCTS COMPANY, INC. OVER HALF A CENTURY OF FREQUENCY CONTROL

502 Via Del Monte • Oceanside, CA 92054

Western Phone (619) 433-4510 Western FAX (619) 434-0255 Eastern Phone (904) 725-4384 Eastern FAX (904) 725-4584

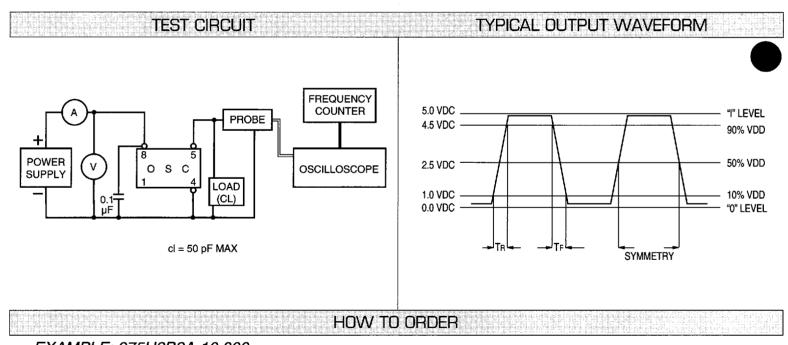
ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

Ambient Temperature Range

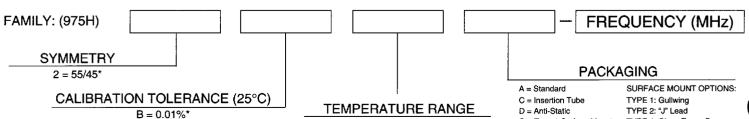
| Operating | 0°C to 70°C Standard | |
|---------------|---|--|
| Storage | -55°C to 125°C | |
| Vibration | MIL-STD-202F Method 204, 35G, 50 to 2000 Hz | |
| Shock | MIL-STD-202F Method 213B Test Cond. E, 1000G, 1/2 Sine Wave | |
| Humidity | 85% RH, 85°C, 48 Hours | |
| Hermetic Seal | Leak Rate 2 x 10 ⁻⁸ ATM, CC/Sec of helium | |
| Solderability | MIL-STD-202F Method 208E | |

POPULAR FREQUENCIES (MHZ)

| 8.0 | 16.0 | 36.0 |
|----------|--------|--------|
| 10.0 | 18.432 | 40.0 |
| 12.0 | 20.0 | 48.0 |
| 14.31818 | 24.0 | 50.0 |
| 14.7456 | 25.0 | 66.666 |
| 15.0 | 32.0 | 80.0 |
| | | 100.0 |



EXAMPLE: 975H2B2A-10.000



2 = 0° to 70 °C

* Standard

D = Anti-Static

TYPE 2: "J" Lead G = Type 1 Surface Mount TYPE 4: Glass Epoxy Base

J = Type 2 Surface Mount S = Type 4 Surface Mount

X = Customer Specification ••

^{**} Suffix "x" indicates a customer specification applies to device. Factory will assign part number. Parts will be marked with Family and Frequency only. When ordering, use the full descriptive part number. Not all options available in all product families, check family data sheet or call factory. Specifications subject to change without notice.