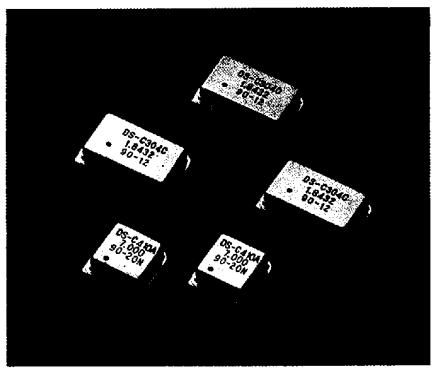


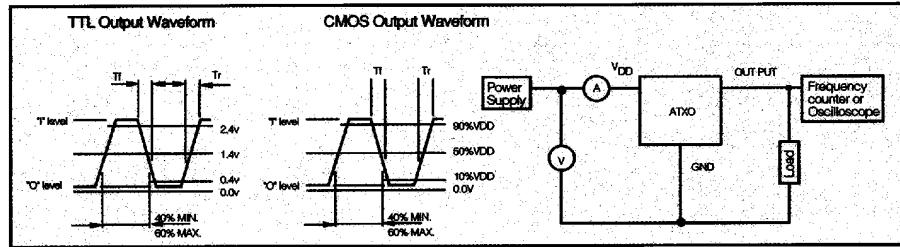
T-50-23

# ATXO SERIES

## AT OSCILLATORS



### ■ TEST CIRCUIT



### ■ SPECIFICATIONS

Item	C304A	C304B	C304C	C410A	C410B	C410C
Material	Metal	Metal	Metal	Metal	Metal	Metal
Oscillation frequency	300 kHz-90 MHz					
Frequency stability	±100 ppm	±50 ppm	±100 ppm	±50 ppm	±100 ppm	±50 ppm
Operating temperature range	0°C - +70°C					
Storage temperature range	-55°C - +125°C					
Aging (first year)	$\Delta f/f_0 \pm 10$ ppm max.					
Power supply voltage (VDD)	DC +5.0V ±0.5V					
Current consumption (25°C)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)	30 mA max. (300 kHz-30 MHz) 40 mA max. (30 MHz-70 MHz) 50 mA max. (70 MHz-90 MHz)
Output level $V_{OH}$ (logic "1") $V_{OL}$ (logic "0")	+2.4V min. (300 kHz-90 MHz) +0.4V max. (300 kHz-90 MHz)	$(V_{DD} - 0.5V)$ min. +0.5V max.	$(V_{DD} - 0.5V)$ min. +0.5V max.	60/40% (DC 1.4V)	60/40% (DC 1.4V)	60/40% (DC 1.4V)
Rise and fall time	5 ns max. (300 kHz ~ 90 MHz)	10 ns max. (300 kHz-90 MHz) ( $C_L = 15$ pF)	10 ns max. (300 kHz-90 MHz) ( $C_L = 15$ pF)	60/40% ( $V_{DD}/2$ )	60/40% ( $V_{DD}/2$ )	60/40% ( $V_{DD}/2$ )
Symmetry	60/40% (DC 1.4V)	60/40% ( $V_{DD}/2$ )	60/40% (DC 1.4V)	60/40% ( $V_{DD}/2$ )	60/40% ( $V_{DD}/2$ )	60/40% ( $V_{DD}/2$ )
Fan-out	10TTL	CMOS	10TTL	10TTL	1 TTL or CMOS	1 TTL or CMOS

### ■ FEATURES

- All metal hermetic package.
- Standard 14-pin DIP compatible or half-size package.
- High quality and reliability.
- TTL or CMOS compatible output.

### ■ APPLICATIONS

Computers, computer peripherals, communications and telecommunications equipment, microprocessors, test equipment, and medical instrumentation.

### ■ NOTES

Custom frequencies and specifications are available upon request.

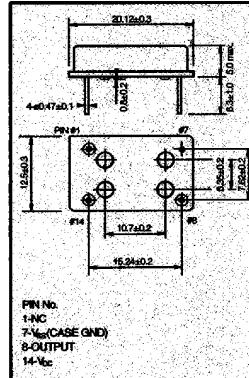
### ■ OPTIONS

- Dual frequency oscillator designs available.
- Enable/Disable.

### ■ DIMENSIONS

(Unit: mm)

#### C304 SERIES



#### C410 SERIES

