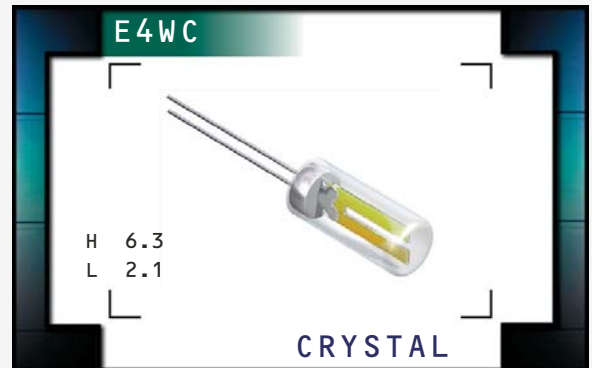


# E4WC Series



**ECLIPTEK**<sup>®</sup>  
CORPORATION

- RoHS Compliant (Pb-Free)
- 32.768kHz watch crystal
- Miniature cylindrical package
- $\pm 20$ ppm frequency tolerance
- 6.0pF or 12.5pF load capacitance available



## NOTES

### ELECTRICAL SPECIFICATIONS

Frequency	32.768kHz
Frequency Tolerance (at 25°C)	$\pm 20$ ppm
Frequency Stability	-0.042ppm / $(\Delta^\circ\text{C})^2$ Maximum, Parabolic; Turn Over Temperature at 25°C $\pm 5^\circ\text{C}$
Operating Temperature Range	-10°C to 60°C
Aging (at 25°C)	$\pm 5$ ppm / year Maximum
Storage Temperature Range	-20°C to 70°C
Shunt Capacitance	0.85pF Typical, 2pF Maximum
Motional Capacitance	2.0fF Typical
Drive Level	1 $\mu$ Watt Maximum
Equivalent Series Resistance	50,000 Ohms Maximum
Insulation Resistance	100 Megaohms Minimum at 100V <sub>DC</sub>
Load Capacitance (C <sub>L</sub> )	6.0pF or 12.5pF

MANUFACTURER  
ECLIPTEK CORP.

CATEGORY  
CRYSTAL

SERIES  
E4WC

PACKAGE  
CYLINDRICAL

CLASS  
CR50

REV. DATE  
07/06

PART NUMBERING GUIDE

**E4WC D A 06 - 32.768K**

**FREQUENCY TOLERANCE**  
D=±20ppm at 25°C

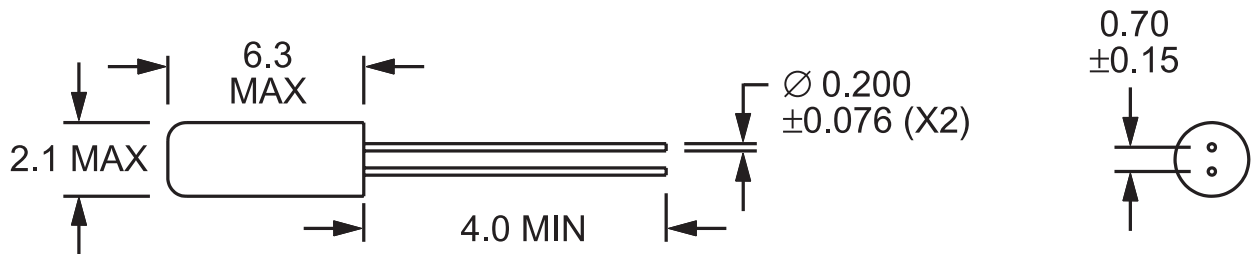
**OPERATING TEMPERATURE RANGE**  
A=-10°C to +60°C

**NOMINAL FREQUENCY**

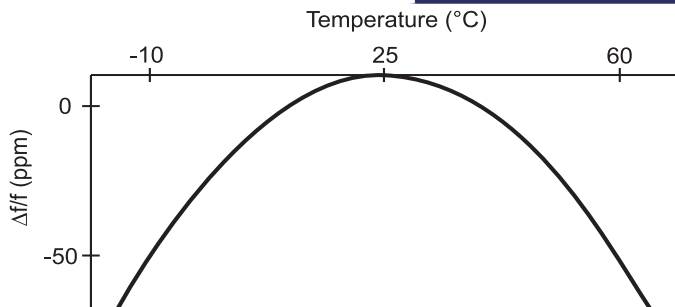
**LOAD CAPACITANCE**  
06=6.0pF  
12=12.5pF

NOTES

**MECHANICAL DIMENSIONS**  
ALL DIMENSIONS IN MILLIMETERS



**PARABOLIC TEMPERATURE CURVE**



**MARKING SPECIFICATIONS**

Line 1: 32.768K  
32.768 = Nominal Frequency in kHz  
K = Blank or K

MANUFACTURER  
ECLIPTEK CORP.

CATEGORY  
CRYSTAL

SERIES  
E4WC

PACKAGE  
CYLINDRICAL

CLASS  
CR50

REV. DATE  
07/06