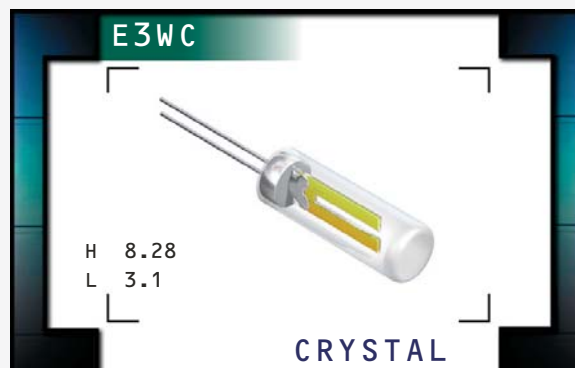


E3WC Series

- RoHS Compliant (Pb-Free)
- 32.768kHz watch crystal
- Miniature cylindrical package
- ± 20 ppm frequency tolerance
- 12.5pF load capacitance



ECLIPTEK
CORPORATION



NOTES

ELECTRICAL SPECIFICATIONS

Frequency	32.768kHz
Frequency Tolerance (at 25°C)	± 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)	± 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 μ Watt Maximum
Equivalent Series Resistance	35,000 Ohms Maximum
Insulation Resistance	500 Megaohms Minimum at 100V _{DC}
Load Capacitance (C _L)	12.5pF

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
CRYSTAL

SERIES
E3WC

PACKAGE
CYLINDRICAL

CLASS
CR49

REV. DATE
08/05

PART NUMBERING GUIDE

E3WC D A 12 - 32.768K

FREQUENCY TOLERANCE
D=±20ppm at 25°C

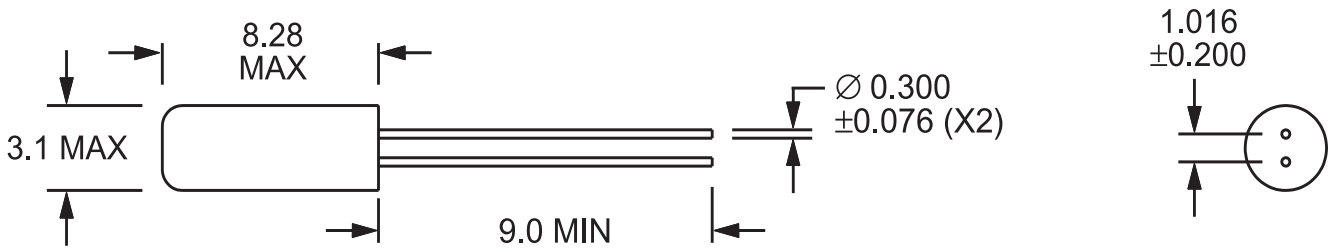
OPERATING TEMPERATURE RANGE
A=-10°C to +60°C

NOMINAL FREQUENCY

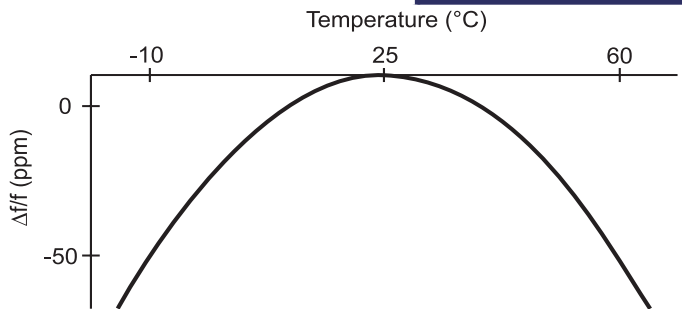
LOAD CAPACITANCE
12=12.5pF

NOTES

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS



PARABOLIC TEMPERATURE CURVE



MARKING SPECIFICATIONS

Line 1: 32.768K
Nominal Frequency in kHz

MANUFACTURER ECLIPTEK CORP.	CATEGORY CRYSTAL	SERIES E3WC	PACKAGE CYLINDRICAL	CLASS CR49	REV. DATE 08/05
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