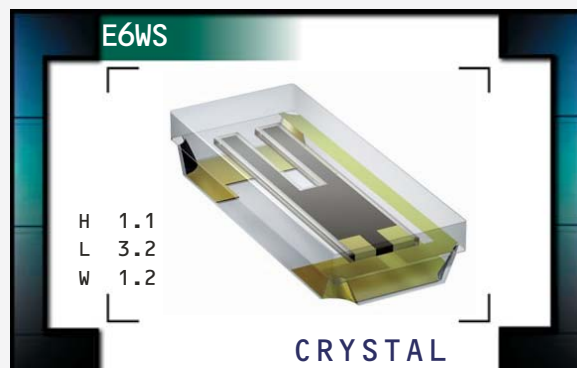


E6WS Series

- RoHS Compliant (Pb-free)
- 32.768kHz watch crystal
- Miniature two pad surface mount package
- ± 20 ppm frequency tolerance
- 12.5pF load capacitance
- Tape and reel available



ECLIPTEK
CORPORATION



NOTES

ELECTRICAL SPECIFICATIONS

Frequency	32.768kHz
Frequency Tolerance (at 25°C)	± 20 ppm
Frequency Stability	-0.035ppm / $(\Delta^\circ\text{C})^2$ Maximum, Parabolic; Turn Over Temperature at 25°C $\pm 5^\circ\text{C}$
Operating Temperature Range	-40°C to 85°C
Aging (at 25°C)	± 3 ppm / year Maximum
Storage Temperature Range	-55°C to 125°C
Shunt Capacitance	1.7pF Typical, 2pF Maximum
Motional Capacitance	2.9fF Typical
Equivalent Series Resistance	65,000 Ohms Maximum
Insulation Resistance	500 Megaohms Minimum at 100V _{DC}
Drive Level	1 μ Watt Maximum
Load Capacitance (C _L)	12.5pF

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
CRYSTAL

SERIES
E6WS

PACKAGE
GLASS

CLASS
CR54

REV. DATE
02/06

PART NUMBERING GUIDE

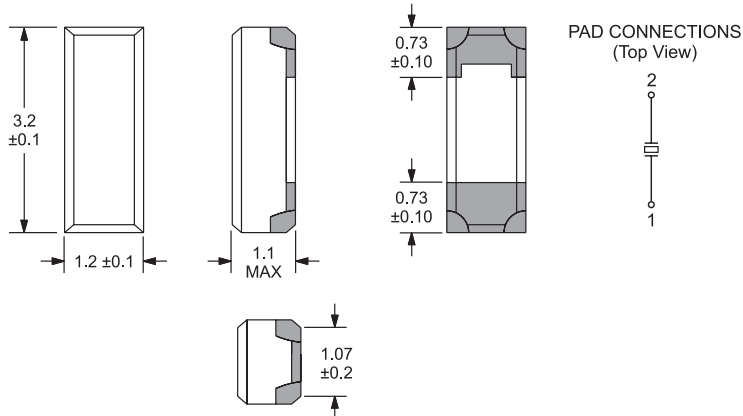
E6WSDC 12 - 32.768K TR

LOAD CAPACITANCE
12=12.5pF

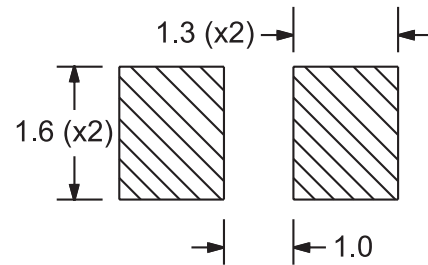
PACKAGE OPTIONS
Blank=Bulk, TR=Tape and Reel

NOTES

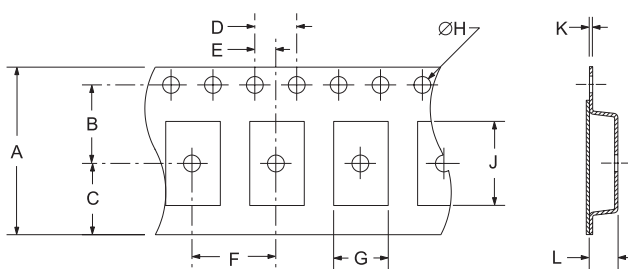
MECHANICAL DIMENSIONS ALL DIMENSIONS IN MILLIMETERS



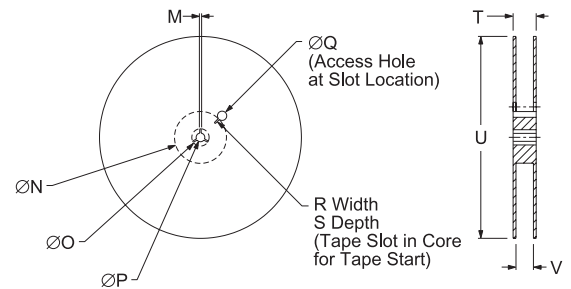
SUGGESTED SOLDER PAD LAYOUTS ALL DIMENSIONS IN MILLIMETERS



TAPE AND REEL DIMENSIONS ALL DIMENSIONS IN MILLIMETERS



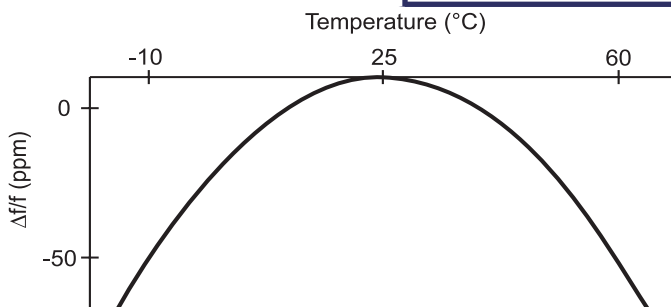
TAPE	A	B	C	D	E
	12±3	5.5±1	4.75±1	4±2	2±1
F	G	H	J	K	L
8±2	A0*	1.5±1	B0*	.5±.05	K0*



REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13±.5	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	18.4 MAX	180 MAX	12.4+2-0	3,000

*Compliant to EIA481A

PARABOLIC TEMPERATURE CURVE



MARKING SPECIFICATIONS

Line 1: 32C XXXXX
 Lot Identifier (5 Characters MAX)
 Frequency Code

MANUFACTURER
ECLIPTEK CORP.

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