ECLIPTEK®
CORPORATION

Marketing Bulletin

DATE: Janaury 11th, 2006

TO: All Sales Personnel

FROM: Mark Stoner

RE: Product Terminations

To all concerned parties,

This bulletin is to notify all customers of the termination of the following Ecliptek series effective January 11th, 2006:

Series	Description	Recommended Replacement
E7WS	SMD Watch Crystal	E1WS, E5WS, E6WS

Because of the circumstances surrounding this termination, there will be no end-of-life policy exercised. The series will be terminated with no purchasing or lifetime buy window available.

All of us at Ecliptek Corporation apologize for any inconvenience this may have caused and can assure you we are taking measures to insure this will not happen again in the future. If there are any questions pertaining to this bulletin, please feel free to contact me. Thank you for your cooperation.
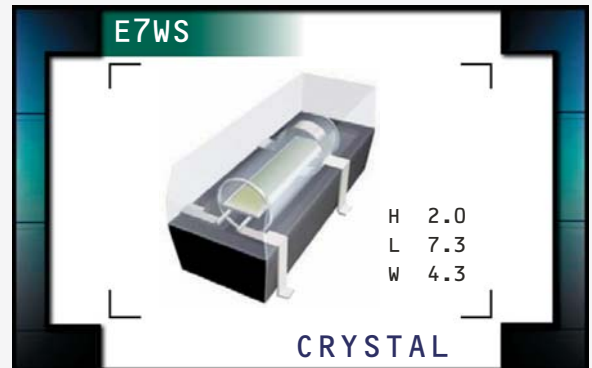
Best Regards,

Mark W. Stoner
Director of Marketing
Ecliptek Corporation

E7WS Series

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

RoHS

ECLIPTEK® CORPORATION

E7WS

H 2.0
L 7.3
W 4.3

CRYSTAL

NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency	32.768kHz
Frequency Tolerance (at 25°C)	±20ppm
Frequency Stability	-0.035ppm / $(\Delta°C)^2$ Maximum, Parabolic; Turn Over Temperature at 25°C ±5°C
Operating Temperature Range	-40°C to 85°C
Aging (at 25°C)	±3ppm / year Maximum
Storage Temperature Range	-55°C to 125°C
Shunt Capacitance	0.9pF Typical, 2pF Maximum
Motional Capacitance	2.3fF Typical
Equivalent Series Resistance	55,000 Ohms Maximum
Insulation Resistance	500 Megaohms Minimum at $100V_{DC}$
Drive Level	1 µWatt Maximum
Load Capacitance (C_L)	12.5pF

MANUFACTURER	CATEGORY	SERIES	PACKAGE	CLASS	REV.DATE
ECLIPTEK CORP.	CRYSTAL	E7WS	PLASTIC	CR55	11/05

800-ECLIPTEK www.ecliptek.com for latest revision   Specifications subject to change without notice.
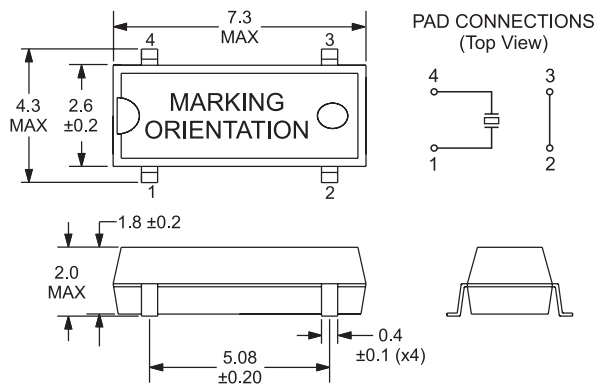
LOAD CAPACITANCE
12=12.5pF

PACKAGE OPTIONS
Blank=Bulk, TR=Tape and Reel

NOTES

OBSOLETE

MECHANICAL DIMENSIONS
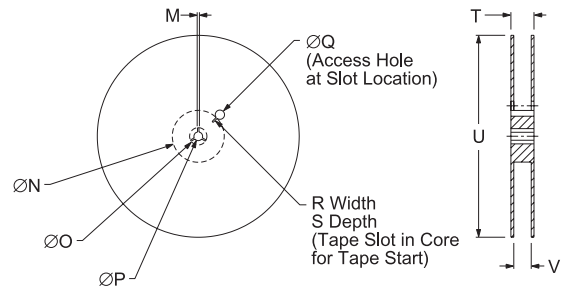ALL DIMENSIONS IN MILLIMETERS

7.3 MAX
4.3 MAX
2.6 ±0.2

MARKING ORIENTATION

4   3
1   2

PAD CONNECTIONS (Top View)

4   3
1   2

1.8 ±0.2
2.0 MAX
5.08 ±0.20
0.4 ±0.1 (x4)

SUGGESTED SOLDER PAD LAYOUTS
ALL DIMENSIONS IN MILLIMETERS

1.2 (x4)
3.88
1.3 (x4)
2.4
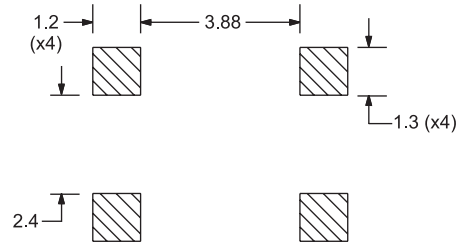
TAPE AND REEL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS

ØH
D
E
K
A
B
C
J
F
G
L

M
ØQ (Access Hole at Slot Location)
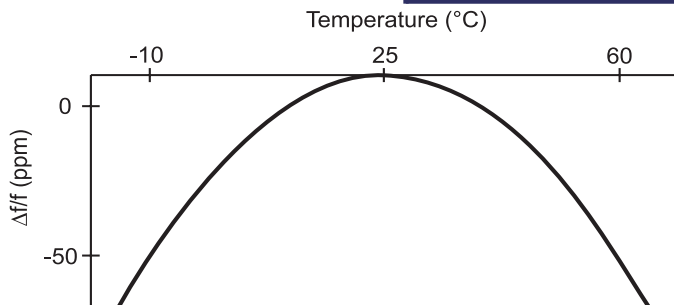ØN
ØO
ØP
R Width
S Depth
(Tape Slot in Core for Tape Start)
T
U
V
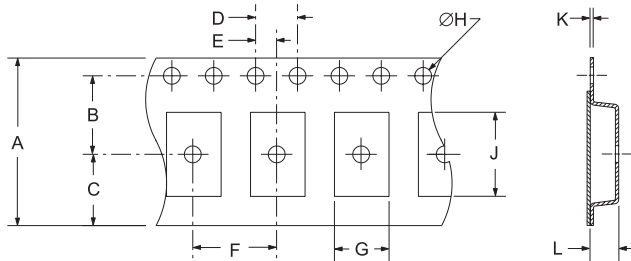
TAPE	A	B	C	D	E
	16±.3	7.5±.1	6.75±.1	4 ±.2	2±.1
F	**G**	**H**	**J**	**K**	**L**
8±.2	4.35±.1	1.5 ±.1	10.7±.2	.5 ±.05	3.7±.2

REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13±.2	40 MIN
R	**S**	**T**	**U**	**V**	**QTY/REEL**
2.5 MIN	10 MIN	22.4 MAX	360 MAX	16.4+2-0	3,000

PARABOLIC TEMPERATURE CURVE

Temperature (°C)

-10   25   60

0
-50

Δf/f (ppm)

MARKING SPECIFICATIONS

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