

Marketing Bulletin

DATE: August 25, 2005
TO: All Sales Personnel
FROM: Mark Stoner
RE: Product Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective August 25th, 2005:

| Series | Description | Recommended Replacement |
|---------------|----------------------------------|--------------------------------|
| E11W2 | 5V 6 pad SMD LVPECL Oscillator | E13C7 |
| E13W2 | 3.3V 6 pad SMD LVPECL Oscillator | E13C7 |

In compliance with our End of Life (EOL) policy, this will serve as advanced notice of product termination. New orders will not be accepted after November 25th, 2005, with delivery to conclude by February 25th 2006.

If there are any questions pertaining to this bulletin, please feel free to contact me. Thank you again for your cooperation.

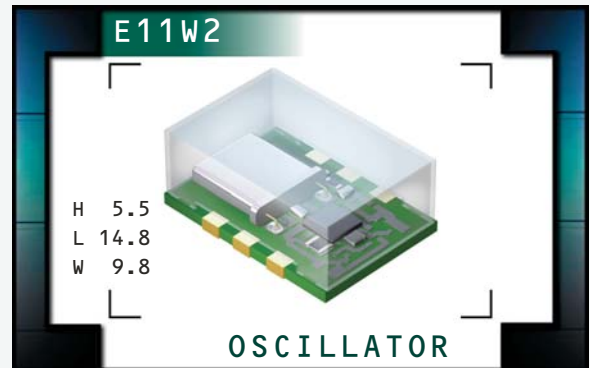
Best Regards,



Mark W. Stoner
Director of Marketing
Ecliptek Corporation

E11W2 Series

- PECL Output Oscillators
- 5.0V supply voltage
- 6 pad PCB SMD package
- Stability to 20ppm
- Output Enable/Disable available
- Complementary Output available
- Available on Tape and Reel



NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

| | | |
|--|--|---|
| Frequency Range | | 19.440MHz to 250.000MHz |
| Operating Temperature Range | | 0°C to 70°C |
| | Available at Frequencies \leq 212.500MHz | -40°C to 85°C |
| Storage Temperature Range | | -55°C to 125°C |
| Supply Voltage (V_{CC}) | | 5.0V _{DC} \pm 5% |
| Input Current | | 100mA Maximum |
| Logic Type | | 100KH |
| Frequency Tolerance / Stability | Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, Aging, Shock, and Vibration | \pm 100ppm, \pm 50ppm, \pm 25ppm, or \pm 20ppm Maximum |
| Output Voltage Logic High (V_{OH}) | | V_{CC} -1.025V _{DC} Minimum |
| Output Voltage Logic Low (V_{OL}) | | V_{CC} -1.620V _{DC} Maximum |
| Rise Time / Fall Time | 20% to 80% of waveform | 2 nSeconds Maximum |
| Duty Cycle | at 50% of waveform | 50 \pm 10(%) 50 \pm 5(%) |
| Load Drive Capability | | 50 Ohms into V_{CC} -2.0V _{DC} |
| Logic Control / Additional Output | | No Connect, Enable/Disable, Complementary Output, or Complementary Output and Enable/Disable |
| Enable/Disable Input Voltage | V_{IL} of V_{CC} -1.475V _{DC} Maximum No Connection V_{IH} of V_{CC} -1.165V _{DC} Minimum | Enables Output Enables Output Disables Output: Logic Low Disables Complementary Output: Logic High |
| Start Up Time | | 10 mSeconds Maximum |
| RMS Phase Jitter | FJ = 12kHz to 20MHz | 1 pSec Maximum |

| | | | | | | |
|--------------------------------|------------------------|-----------------|------------------|-----------------|---------------|--------------------|
| MANUFACTURER ECLIPTEK CORP. | CATEGORY OSCILLATOR | SERIES E11W2 | PACKAGE 6-PCB | VOLTAGE 5.0V | CLASS 0578 | REV. DATE 01/03 |
|--------------------------------|------------------------|-----------------|------------------|-----------------|---------------|--------------------|

PART NUMBERING GUIDE

E11W2 F 2 C - 155.520M TR

FREQUENCY TOLERANCE & STABILITY/ OPERATING TEMPERATURE RANGE

C=±100ppm Maximum over 0°C to +70°C
 D=±50ppm Maximum over 0°C to +70°C
 E=±25ppm Maximum over 0°C to +70°C
 F=±20ppm Maximum over 0°C to +70°C
 G=±100ppm Maximum over -40°C to +85°C
 H=±50ppm Maximum over -40°C to +85°C

DUTY CYCLE

1=50% ±10%, 2=50% ±5%

AVAILABLE OPTIONS

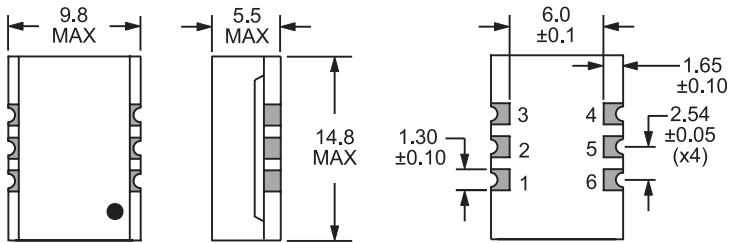
Blank= Tubes
 TR= Tape and Reel (Standard)

FREQUENCY

LOGIC CONTROL/ADDITIONAL OUTPUT

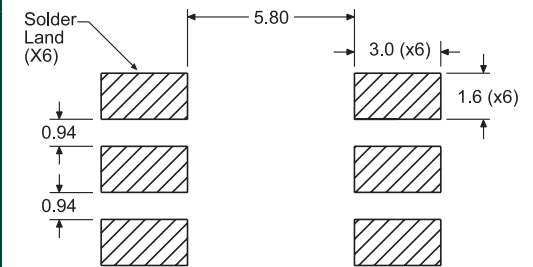
A= No Connect
 B= Enable/Disable
 C= Complementary Output
 D= Complementary Output and Enable/Disable

MECHANICAL DIMENSIONS ALL DIMENSIONS IN MILLIMETERS



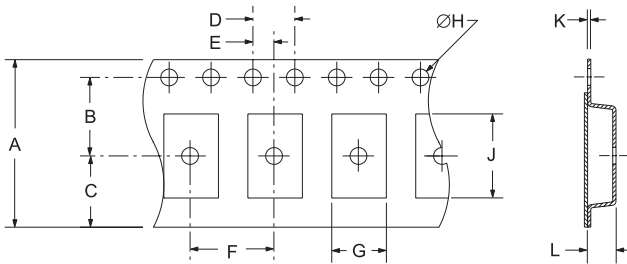
Pin 1: Complementary Output or No Connect
 Pin 2: Enable/Disable or No Connect
 Pin 3: Case Ground
 Pin 4: Output
 Pin 5: No Connect
 Pin 6: Supply Voltage

SUGGESTED SOLDER PAD LAYOUT ALL DIMENSIONS IN MILLIMETERS

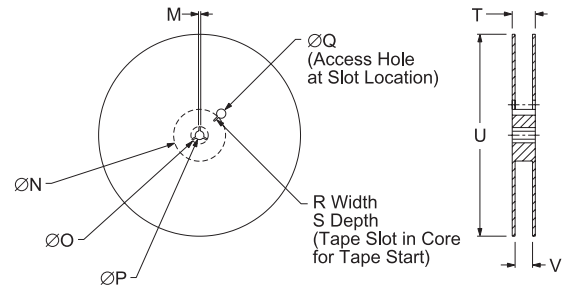


Tolerances = ±0.1

TAPE AND REEL DIMENSIONS ALL DIMENSIONS IN MILLIMETERS



| TAPE | A | B | C | D | E |
|--------|--------|-----------|-----------|---------|-------|
| | 24 ±.3 | 11.5 ±.1 | 10.75 ±.1 | 4 ±.2 | 2 ±.1 |
| F | G | H | J | K | L |
| 12 ±.1 | B0* | 1.5 +.1-0 | A0* | .4 ±.05 | K0* |



| 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 | 30.4 MAX | 360 MAX | 24.4+2-0 | 1000 |

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

| Characteristic | Specification |
|------------------------------|---------------------------------------|
| Fine Leak Test | MIL-STD-883, Method 1014, Condition A |
| Gross Leak Test | MIL-STD-883, Method 1014, Condition C |
| Mechanical Shock | MIL-STD-202, Method 213, Condition C |
| Vibration | MIL-STD-883, Method 2007, Condition A |
| Solderability | MIL-STD-883, Method 2002 |
| Temperature Cycling | MIL-STD-883, Method 1010 |
| Resistance to Soldering Heat | MIL-STD-202, Method 210 |
| Resistance to Solvents | MIL-STD-202, Method 215 |

MARKING SPECIFICATIONS

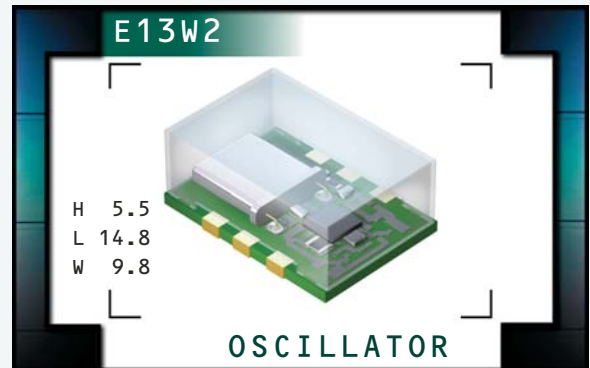
Line 1: ECLIPTEK
 Line 2: XX.XXX M
 Frequency in MHz (5 Digits Maximum + Decimal)
 Line 3: XX Y ZZ
 Week of Year
 Last Digit of Year
 Ecliptek Manufacturing Identifier

OBSOLETE

| | | | | | | |
|--------------------------------|---------------------------|----------------------|------------------|-----------------|---------------|--------------------|
| MANUFACTURER ECLIPTEK CORP. | DESCRIPTION OSCILLATOR | PART NUMBER E11W2 | PACKAGE 6-PLC | VOLTAGE 5.0V | CLASS 0578 | REV. DATE 01/03 |
|--------------------------------|---------------------------|----------------------|------------------|-----------------|---------------|--------------------|

E13W2 Series

- PECL Output Oscillators
- 3.3V supply voltage
- 6 pin PCB SMD package
- Stability to 20ppm
- Output Enable/Disable available
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ELECTRICAL SPECIFICATIONS

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| Frequency Range | | 19.440MHz to 250.000MHz |
| Operating Temperature Range | | 0°C to 70°C |
| | Available at Frequencies \leq 212.500MHz | -40°C to 85°C |
| Storage Temperature Range | | -55°C to 125°C |
| Supply Voltage (V_{CC}) | | 3.3V _{DC} \pm 5% |
| Input Current | | 75mA Maximum |
| Logic Type | | 100KH |
| Frequency Tolerance / Stability | Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, Aging, Shock, and Vibration | \pm 100ppm, \pm 50ppm, \pm 25ppm, or \pm 20ppm Maximum |
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| Start Up Time | | 10 mSeconds Maximum |
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| MANUFACTURER | CATEGORY | SERIES | PACKAGE | VOLTAGE | CLASS | REV. DATE |
|----------------|------------|--------|---------|---------|-------|-----------|
| ECLIPTEK CORP. | OSCILLATOR | E13W2 | 6-PCB | 3.3V | OS76 | 03/02 |

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AVAILABLE OPTIONS

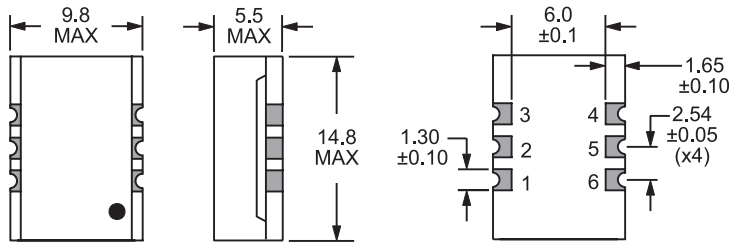
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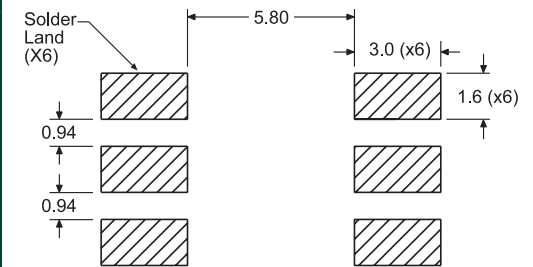
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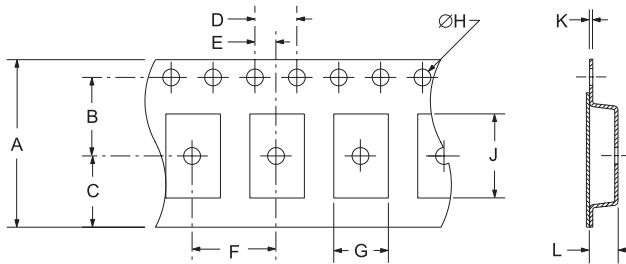
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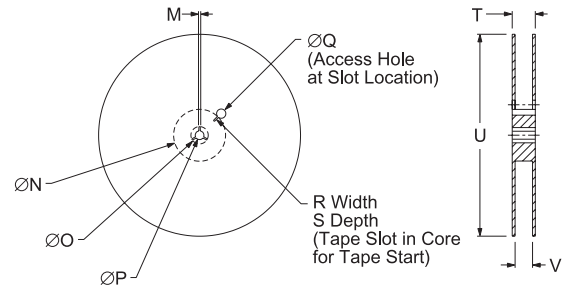


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| | | | | | | |
|--------------------------------|---------------------------|----------------------|------------------|-----------------|---------------|--------------------|
| MFG. COMPANY ECLIPTEK CORP. | DESCRIPTION OSCILLATOR | PART NUMBER E13W2 | PACKAGE 6-PCB | VOLTAGE 3.3V | CLASS 0576 | REV. DATE 01/03 |
|--------------------------------|---------------------------|----------------------|------------------|-----------------|---------------|--------------------|