

## Marketing Bulletin

**DATE:** May 6, 2005  
**TO:** All Sales Personnel  
**FROM:** Mark Stoner  
**RE:** E11 (OS/03) Termination

To all concerned parties,

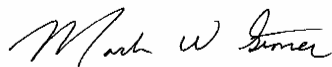
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective May 1<sup>st</sup>, 2005:

| <b>Series</b> | <b>Description</b>           | <b>Recommended Replacement</b> |
|---------------|------------------------------|--------------------------------|
| E11           | 5V 14 pin DIP ECL Oscillator | None                           |

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 August 1<sup>st</sup>, 2005, with delivery to conclude by November 1<sup>st</sup> 2005.

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

# STANDARD SPECIFICATIONS

|                                   |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------|
| Frequency Range:                  | 6.000MHz to 155.520MHz                                                       |
| Frequency Tolerance/Stability:    | (All Values Inclusive of Operating Temp. Range, Supply Voltage, and Load)    |
| 00                                | ±100ppm Max.                                                                 |
| 45                                | ±50ppm Max.                                                                  |
| 25                                | ±25ppm Max. (0°C to +70°C only), (less than or equal to 125.000MHz only)     |
| Operating Temperature Range       |                                                                              |
| Blank                             | 0°C to +70°C                                                                 |
| ET                                | -40°C to +85°C                                                               |
| Storage Temperature Range         | -55°C to +125°C                                                              |
| Supply Voltage (V <sub>EE</sub> ) | -5.2Vdc ±5% (AA, AB, and AM); +5.2Vdc ±5% (AC)                               |
| Input Current                     | 140mA Maximum                                                                |
| Output Voltage Logic High         | -1.0Vdc Min./-0.7Vdc Max. (AA, AB, and AM); 4.0Vdc Min./4.5Vdc Max. (AC)     |
| Output Voltage Logic Low          | -1.95Vdc Min./-1.60Vdc Max. (AA, AB, and AM); 3.00Vdc Min./3.42Vdc Max. (AC) |
| Rise/Fall Time                    | 2nSec Maximum (Measured at 20% to 80% of waveform)                           |
| Duty Cycle                        | 50% ±10% (Measured at 50% of waveform)                                       |
| Load Drive Capability             | 50 Ohms into -2.0Vdc (AA, AB, and AM); 50 Ohms into +3.0Vdc (AC)             |
| Aging @ 25°C                      | ±5ppm/year Maximum                                                           |

**OBSOLETE**

## ENVIRONMENTAL & MECHANICAL

|                   |                                       |                               |                          |
|-------------------|---------------------------------------|-------------------------------|--------------------------|
| Fine Leak Test:   | MIL-STD-883, Method 1014, Condition A | Solderability:                | MIL-STD-883, Method 2002 |
| Gross Leak Test:  | MIL-STD-883, Method 1014, Condition C | Temperature Cycling:          | MIL-STD-883, Method 1010 |
| Mechanical Shock: | MIL-STD-202, Method 213, Condition C  | Resistance to Soldering Heat: | MIL-STD-202, Method 210  |
| Vibration:        | MIL-STD-883, Method 2007, Condition A | Resistance to Solvents:       | MIL-STD-202, Method 215  |
| Lead Integrity:   | MIL-STD-883, Method 2004              |                               |                          |

## PIN CONFIGURATIONS

| PIN | AA          | AB                                 | AC                                 | AM                                 |
|-----|-------------|------------------------------------|------------------------------------|------------------------------------|
| 1   | Ground/Case | No Connect or Complementary Output | No Connect or Complementary Output | No Connect or Complementary Output |
| 7   | -5.2V       | -5.2V                              | Ground/Case                        | Ground/Case                        |
| 8   | Output      | Output                             | Output                             | Output                             |
| 14  | Ground      | Ground/Case                        | +5.2Vdc                            | -5.2Vdc                            |

## PART NUMBERING GUIDE

**E11 00 AM ET C - 24.000M - CL175**

### Configuration Options

CLXXX = Cut Leads (MAL01-101-000)  
G = Gull Wing (MAL01-001-000)

### Frequency

### Pin 1 Connection

Blank = No Connect  
C = Complementary Output

### Operating Temperature Range

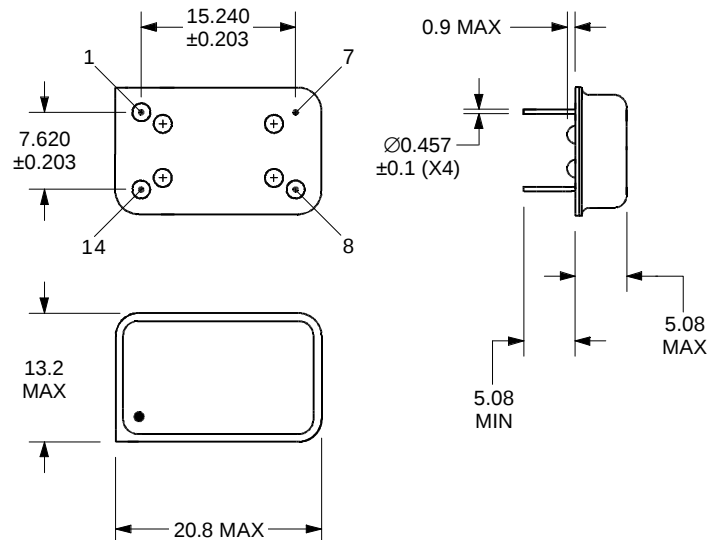
Blank = 0°C to +70°C  
ET = -40°C to +85°C

### Pin Configuration

AA, AB, AC, or AM  
Per Pin Configuration Table Above

### Frequency Tolerance/Stability

00 = ±100ppm Maximum, 45 = ±50ppm Maximum  
25 = ±25ppm Maximum



## MARKING GUIDE

(Line #1) **ECLIPTEK**

(Line #2) **E11 AM C**

### Pin 1 Connection

Blank = No Connect  
C = Complementary Output

Pin Configuration Per Pin Configuration Table Above

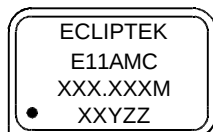
(Line #3) **XXX.XXXM**

### Frequency

(Line #4) **XX Y ZZ**

Week of Year  
Last Digit of Year

Ecliptek Manufacturing Code (TEN02-001-000)



ALL DIMENSIONS  
IN MILLIMETERS

## SPECIFICATION CONTROL DRAWING

|                                                                                                                      |  |                                        |                    |             |
|----------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--------------------|-------------|
|  <b>ECLIPTEK®</b><br>CORPORATION |  | <b>Drawing Number</b><br>CSC01-010-000 |                    |             |
| <b>Title</b><br>FULL SIZE ECL OSCILLATOR                                                                             |  |                                        |                    |             |
| <b>Revision</b><br>E                                                                                                 |  | <b>Effectivity Date</b><br>08-27-03    |                    |             |
| <b>ECN Number</b><br>8675                                                                                            |  | <b>PAGE 1 OF 2</b>                     |                    |             |
| <b>Approved By</b>                                                                                                   |  | <b>Date</b>                            | <b>Released By</b> | <b>Date</b> |

**NOTE:** Pin 1 shall be marked with a black dot. Marking shall conform to conditions listed in TQC41-001-000.