

## Product EOL Announcement

The Product EOL Announcement signifies that a product series has entered the final phase of the Ecliptek Product Life Cycle, and serves as advance notice of product termination per the Ecliptek End of Life (EOL) policy.

Ecliptek Corporation announces End of Life initiation for the following product series with the intent of discontinuing its availability.

EOL Series	Description
EC11	5.0V 8 Pin or 14 Pin DIP Metal Thru-Hole HCMOS/TTL Oscillator

### EOL Timeline

The last date Ecliptek will accept orders (Stage 2) and the last date orders may be scheduled for shipment (Stage 3) are listed in the table below.

Stage 1 EOL Announce Date	Stage 2 Last Date to Order	Stage 3 Last Date to Ship
20-April-2010	1-September-2010	1-December-2010

### Alternative Products

In order to fulfill your requirements beyond this product's discontinuation, we invite you to evaluate the recommended alternative Ecliptek product series referenced below. Please click on the link to view the data sheet.

Alternative Series	Description
<a href="#">EH11</a>	5.0V 8 Pin or 14 Pin DIP Metal Thru-Hole CMOS/TTL High Frequency Oscillator

### Automated EOL Notification

Ecliptek offers automated notification of Product EOL Announcements. Place part numbers for which you'd like to receive EOL Notifications into your personalized [Parts List](#) on our website and we'll email you when EOL is announced.

Please do not hesitate to contact us if you have any questions or need further assistance.

Ecliptek Global Customer Support Team  
(800) 433-1280 x300  
[customersupport@ecliptek.com](mailto:customersupport@ecliptek.com)

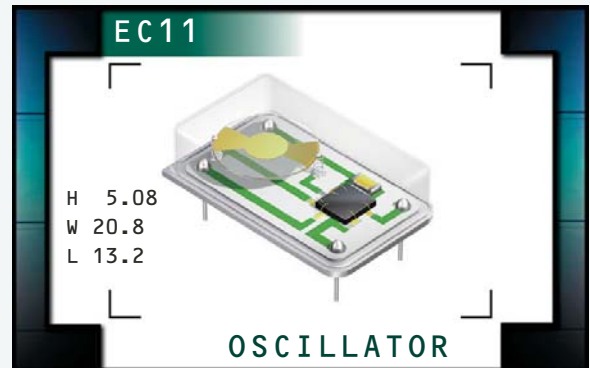
All product warranties for discontinued products will be honored in full according to Ecliptek [Terms and Conditions of Sale](#).

# EC11 Series



ECLIPTEK<sup>®</sup>  
CORPORATION

- Crystal Clock Oscillators
- CMOS/TTL Output
- +5.0V Supply Voltage
- Tri-State Output Option
- Custom Lead Length & Gull Wing Options
- 14 pin DIP Metal Package
- RoHS Compliant (Pb-free)



## ELECTRICAL SPECIFICATIONS

<b>Frequency Range (MHz)</b>		0.250MHz to 106.250MHz
<b>Operating Temperature Range</b>		0°C to 70°C or -40°C to 85°C
<b>Storage Temperature Range</b>		-55°C to 125°C
<b>Supply Voltage (V<sub>DD</sub>)</b>		5.0V <sub>DC</sub> ±10%
<b>Input Current</b>	250.000kHz to 24.000MHz	45mA Maximum
	24.001MHz to 50.000MHz	55mA Maximum
	50.001MHz to 66.667MHz	65mA Maximum
	66.668MHz to 106.250MHz	85mA Maximum
<b>Frequency Tolerance / Stability</b>	Inclusive of Operating Temperature Range, Supply Voltage, and Load	±100ppm, ±50ppm, ±25ppm, or ±20ppm Max. (0°C to 70°C Only)
<b>Output Voltage Logic High (V<sub>OH</sub>)</b>	w/TTL Load	2.4V <sub>DC</sub> Minimum
	w/CMOS Load	V <sub>DD</sub> -0.5V <sub>DC</sub> Minimum
<b>Output Voltage Logic Low (V<sub>OL</sub>)</b>	w/TTL Load	0.4V <sub>DC</sub> Maximum
	w/CMOS Load	0.5V <sub>DC</sub> Maximum
<b>Rise Time / Fall Time</b>	0.4V <sub>DC</sub> to 2.4V <sub>DC</sub> w/TTL Load; 20% to 80% of Waveform w/CMOS Load	6 nSeconds Maximum
<b>Duty Cycle</b>	at 1.4V <sub>DC</sub> w/TTL Load; at 50% of Waveform w/CMOS Load	50 ±10(%) (Standard)
	at 1.4V <sub>DC</sub> w/TTL Load or w/CMOS Load ≤ 70.000MHz	50 ±5(%) (Optional)
	at 50% of Waveform w/TTL Load or w/CMOS Load > 70.000MHz	50 ±5(%) (Optional)
<b>Load Drive Capability</b>	250.000kHz to 24.000MHz	10TTL Load or 50pF CMOS Load
	24.001MHz to 70.000MHz	10TTL Load or 15pF CMOS Load
	70.001MHz to 106.250MHz	10LSTTL Load or 15pF HCMOS Load
<b>Tri-State Input Voltage</b>	V <sub>IH</sub> : No Connection	Enables Output
	V <sub>IH</sub> : ≥2.2V <sub>DC</sub>	Enables Output
	V <sub>IL</sub> : ≤0.8V <sub>DC</sub>	Disables Output: High Impedance
<b>Aging (at 25°C)</b>		±5ppm / year Maximum
<b>Start Up Time</b>		10mSeconds Maximum
<b>Period Jitter: Absolute</b>		±100pSeconds Maximum
<b>Period Jitter: One Sigma</b>		±25pSeconds Maximum

MANUFACTURER  
ECLIPTEK CORP.

CATEGORY  
OSCILLATOR

SERIES  
EC11

PACKAGE  
14 pin DIP

VOLTAGE  
5.0V

CLASS  
OS04

REV. DATE  
08/06

## PART NUMBERING GUIDE

**EC11 00 ETTTS - 60.000M - G**

**FREQUENCY TOLERANCE / STABILITY**

00=±100ppm Max., 45=±50ppm Max.  
25=±25ppm Max., 20=±20ppm Max.

**OPERATING TEMP. RANGE**

Blank=0°C to 70°C, ET=-40°C to 85°C

**DUTY CYCLE**

Blank=50 ±10(%), T=50 ±5(%)

**AVAILABLE OPTIONS**

Blank=None  
CLXXX=Custom Lead Length  
G=Full Size Gull Wing

**FREQUENCY**

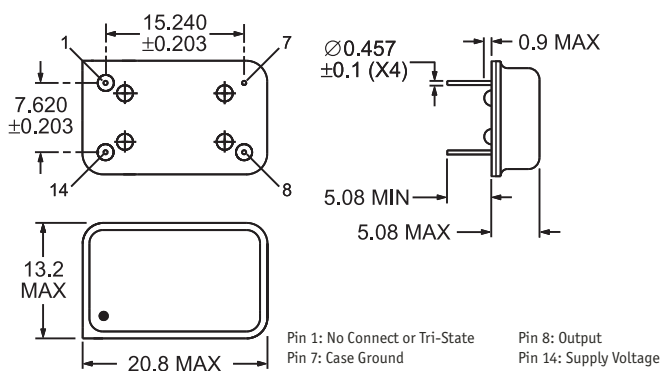
K=kHz, M=MHz

**OUTPUT CONTROL FUNCTION**

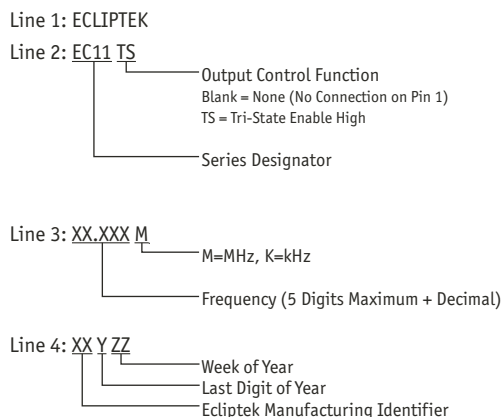
Blank=None (No Connection on Pin 1)  
TS=Tri-State Enable High

### NOTES

**MECHANICAL DIMENSIONS**  
ALL DIMENSIONS IN MILLIMETERS



**MARKING SPECIFICATIONS**



Note: Pin 1 shall be designated with a dot

**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
Lead Integrity	MIL-STD-883, Method 2004

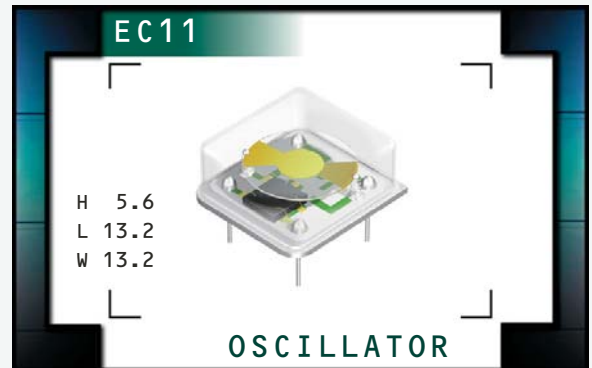
Characteristic	Specification
Solderability	MIL-STD-883, Method 2002
Temperature Cycling	MIL-STD-883, Method 1010
Resistance to Soldering Heat	MIL-STD-883, Method 210
Resistance to Solvents	MIL-STD-883, Method 215

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EC11	14 pin DIP	5.0V	OS04	08/06

# EC11 Series



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- CMOS/TTL Output
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MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EC11	8 pin DIP	5.0V	OS05	08/06



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[EC1100-27.120M](#)