

Marketing Bulletin

DATE: Saturday, April 01, 2000
TO: Affected Customers
FROM: Marketing
RE: ECH11 Series Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the ECH11 series Ecliptek oscillator effective Saturday, April 01, 2000.

In compliance with our End of Life (EOL) policy, this notice will serve as advanced notice of product termination. New orders will not be accepted after Saturday, July 01, 2000, with delivery to be conclude by Saturday, September 30, 2000.

The EH11 series is a recommended alternate for the ECH11 series. This may not be an exact cross, so it is highly recommended that the data sheet(s) of the recommended alternate are reviewed and samples tested to ensure conformance.

If there are any questions pertaining to this bulletin, please contact your Ecliptek sales representative. Thank you again for your cooperation.

Ecliptek Marketing

STANDARD SPECIFICATIONS

Frequency Range:	70.000MHz 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.
20	±20ppm Max. (0°C to +70°C only)
Operating Temperature Range	0°C to +70°C
ET	-40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Supply Voltage	5.0Vdc ±10%
Input Current	50mA Maximum
Output Voltage Logic High	2.4Vdc Min. w/TTL Load, V _{DD} -0.5Vdc Min. w/HCMOS Load
Output Voltage Logic Low	0.4Vdc Max. w/TTL Load, 0.5Vdc Max. w/HCMOS Load
Rise/Fall Time	3nSec (0.4Vdc to 2.4Vdc w/TTL Load, 20% to 80% of waveform w/HCMOS Load)
Duty Cycle	50% ±10% (@ 1.4Vdc w/TTL Load, @ 50% of waveform w/HCMOS Load)
T	50% ±5% (@ 1.4Vdc w/TTL Load or 15pF HCMOS Load)
Load Drive Capability	10TTL Load or 50pF HCMOS Load
Start Up Time	10 mSec Maximum
Aging @ 25°C	±5ppm/year
Pin 1 Connection	No Connect
TS	Tri-State (High Impedance)
Tri-State Input Voltage (V _{IH} & V _{IL})	+2.4Vdc Min. to Enable Output, +0.8Vdc Max. to Disable Output (High Impedance), No Connect to Enable Output
Absolute Clock Jitter	±200pSec Maximum
One Sigma Clock Period Jitter	±50pSec Maximum

ORIGINAL
IF IN RED

ENVIRONMENTAL & MECHANICAL

Shock:	Conditions and Criteria Listed in TQC41-883-007
Vibration:	Conditions and Criteria Listed in TQC41-883-008
Seal Integrity:	Conditions and Criteria Listed in TQC41-883-003
Solderability:	Conditions and Criteria Listed in TQC41-883-004 / 95% coverage
Marking Permanency:	Conditions and Criteria Listed in TQC41-883-001

PART NUMBERING GUIDE

ECH11 00 HS ET T TS - 70.000M - CL125

See Configuration Options in Table Below

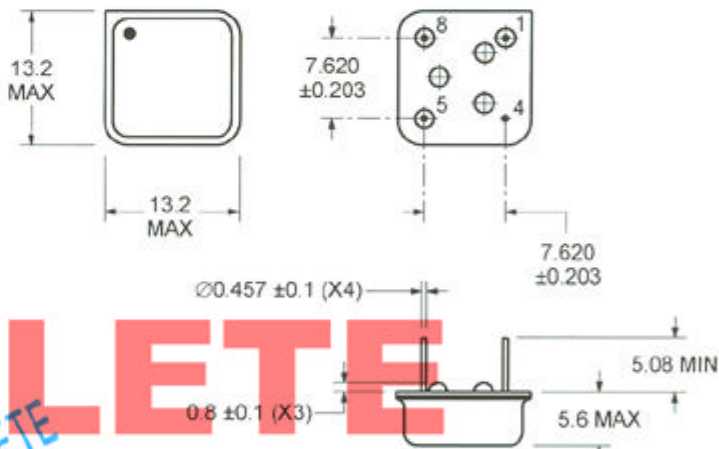
Frequency

Pin 1 Connection
Blank = No Connect
TS = Tri-State Enable High

Duty Cycle
Blank = 50 ±10%, T = 50 ±5%

Operating Temperature Range
Blank = 0°C to +70°C, ET = -40°C to +85°C

Frequency Tolerance/Stability
00 = ±100ppm Maximum, 45 = ±50ppm Maximum,
25 = ±25ppm Maximum, 20 = ±20ppm Maximum



MARKING GUIDE

(Line #1) ECLIPTEK

(Line #2) ECH11 TS

Pin 1 Connection
Blank = No Connect
TS = Tri-State Enable High

(Line #3) XX.XXXM

Frequency

(Line #4) XX Y ZZ

Week of Year
Last Digit of Year
Eclipse Manufacturing Code Per TEN02-001-000



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

ALL DIMENSIONS
IN MILLIMETERS

PIN	CONNECTION
1	No Connect or Tri-state
4	Ground/Case Ground
5	Output
8	Supply Voltage

SPECIFICATION CONTROL DRAWING

	Drawing Number CSC02-200-000
Title HALF SIZE HIGH FREQUENCY OSCILLATOR	

CONFIGURATION OPTIONS

CLXXX = Cut Leads (MAL01-101-000)
G = Gull Wing (MAL02-001-000) G2 = Gull Wing (MAL02-011-000)

STANDARD SPECIFICATIONS

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Output Voltage Logic Low	0.4Vdc Max. w/TTL Load, 0.5Vdc Max. w/HCMOS Load
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PART NUMBERING GUIDE

ECH11 00 ET T TS - 70.000M - CL125

- See Configuration Options in Table Below
- Frequency
- Pin 1 Connection
Blank = No Connect
TS = Tri-State Enable High
- Duty Cycle
Blank = 50 ±10%, T = 50 ±5%
- Operating Temperature Range
Blank = 0°C to +70°C, ET = -40°C to +85°C
- Frequency Tolerance/Stability
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MARKING GUIDE

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(Line #2) ECH11 TS

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Blank = No Connect
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(Line #3) XX.XXXM

Frequency

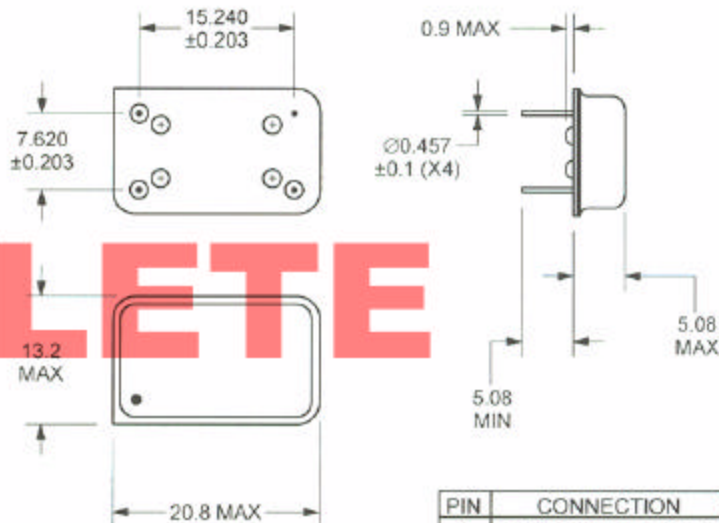
(Line #4) XX Y ZZ

- Week of Year
- Last Digit of Year
- Ecliptek Manufacturing Code Per TEN02-001-000

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CONFIGURATION OPTIONS

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



ALL DIMENSIONS
IN MILLIMETERS

PIN	CONNECTION
1	No Connect or Tri-state
7	Ground/Case Ground
8	Output
14	Supply Voltage

OBSOLETE

SPECIFICATION CONTROL DRAWING

ECLIPTEK CORPORATION	Drawing Number CSC01-200-000
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Title
FULL SIZE HIGH FREQUENCY OSCILLATOR