

Marketing Bulletin

DATE: Saturday, April 01, 2000

TO: Affected Customers

FROM: Marketing

RE: ECH13 Series Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the ECH13 series Ecliptek oscillator effective Saturday, April 01, 2000.

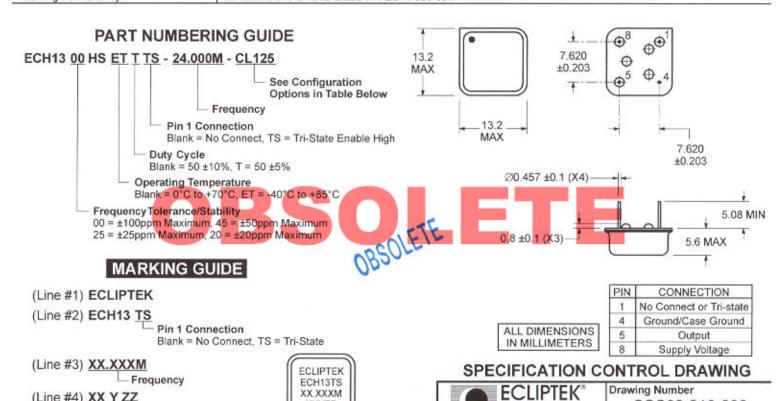
In compliance with our End of Life (EOL) policy, this notice will serve as advanced notice of product termination. New orders will not be accepted after Saturday, July 01, 2000, with delivery to be conclude by Saturday, September 30, 2000.

The EH13 series is a recommended alternate for the ECH13 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

THE RESERVE OF THE PERSON OF T	STANDARD SPECIFICATIONS		
Frequency Range:	70.000MHz to 155.520MHz		
Frequency Tolerance/Stability:	(All Values Inclusive of Operating Temp. Range, Supply Voltage, and Load)	ORIGINAL	
00	±100ppm Max.		
45	±50ppm Max.	IF IN RED	
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	3.3Vdc ±0.3Vdc		
Input Current	35mA Maximum		
Output Voltage Logic High	2.4Vdc Min. w/TTL Load, 2.7Vdc Min. w/HCMOS Load		
Output Voltage Logic Low	0.4Vdc Max. w/TTL or HCMOS Load		
Rise/Fall Time	3nSec Maximum (0.4Vdc to 2.4Vdc)		
Duty Cycle	50% ±10% (@ 1.4Vdc)		
T	50% ±5% (@ 1.4Vdc)		
Load Drive Capability	5TTL Load or 15pF HCMOS Load Maximum		
Aging @ 25°C	±5ppm/year		
Pin 1 Connection	No Connect		
TS	Tri-State (High Impedance)		
Tri-State Input Voltage (Vін & VіL)	+2.2Vdc 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		
Start Up Time	10 mSec Maximum		
UNITED BY THE REAL PROPERTY.	ENVIRONMENTAL & MECHANICAL	SECTION AND ADDRESS OF THE PARTY OF THE PART	
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		



CORPORATION

HALF SIZE HIGH FREQUENCY 3.3Vdc OSCILLATOR

CSC02-210-000

XX.XXXM

XXYZZ

CONFIGURATION OPTIONS

Week of Year Last Digit of Year

(Line #4) XX Y ZZ

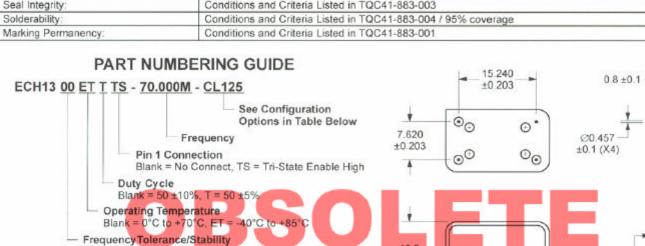
CLXXX = Cut Leads (MAL02-101-000) G = Gull Wing (MAL02-001-000) G2 = Gull Wing (MAL02-011-000)

NOTE: Pin 1 shall be marked with a black dot. Marking

Ecliptek Manufacturing Code per TEN02-001-000

shall conform to conditions listed in TQC41-001-000.

	STANDARD SPECIFICATIONS		
Frequency Range:	70.000MHz to 155.520MHz		
Frequency Tolerance/Stability:	(All Values Inclusive of Operating Temp. Range, Supply Voltage, and Load)	ODICINIAL	
00	±100ppm Max.	ORIGINAL	
45	±50ppm Max.	IF IN RED	
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	3.3Vdc ±0.3Vdc		
Input Current	35mA Maximum		
Output Voltage Logic High	2.4Vdc Min. w/TTL Load, 2.7Vdc Min. w/HCMOS Load		
Output Voltage Logic Low	0.4Vdc Max. w/TTL or HCMOS Load		
Rise/Fall Time	3nSec Maximum (0.4Vdc to 2.4Vdc)		
Duty Cycle	50% ±10% (@ 1.4Vdc)		
Т	50% ±5% (@ 1.4Vdc)		
Load Drive Capability	5TTL Load or 15pF HCMOS Load Maximum		
Aging @ 25°C	±5ppm/year		
Pin 1 Connection	No Connect		
TS	Tri-State (High Impedance)		
Tri-State Input Voltage (VIH & VII.)	+2.2Vdc Min. to Enable Output, +0.8Vdc Max. to Disable Output (High Impedance), No Connect to Enable Output		
Absolute Clock Period Jitter	±200pSec Maximum		
One Sigma Clock Period Jitter	±50pSec Maximum		
Start Up Time	10mSec Maximum		
and the second	ENVIRONMENTAL & MECHANICAL	THE RESIDENCE IN	
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		



OBSOLETE

ECLIPTEK

ECH13TS

MXXXXXM

XXYZZ

MARKING GUIDE

(Line #1) ECLIPTEK

(Line #2) ECH13 TS

Pin 1 Connection

Blank = No Connect, TS = Tri-State

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

25 = ±25ppm Maximum, 20 = ±20ppm Maximum

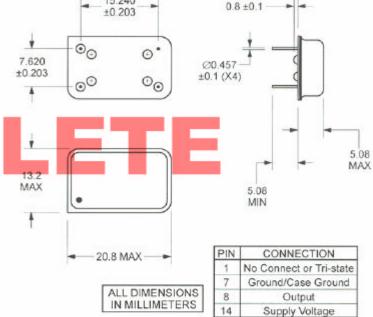
(Line #3) XX.XXXM

Frequency

(Line #4) XX Y ZZ
Week of Year
Last Digit of Year

Ecliptek 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.



SPECIFICATION CONTROL DRAWING



Drawing Number CSC01-210-000

Title

FULL SIZE HIGH FREQUENCY 3.3Vdc OSCILLATOR

CONFIGURATION OPTIONS