

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.

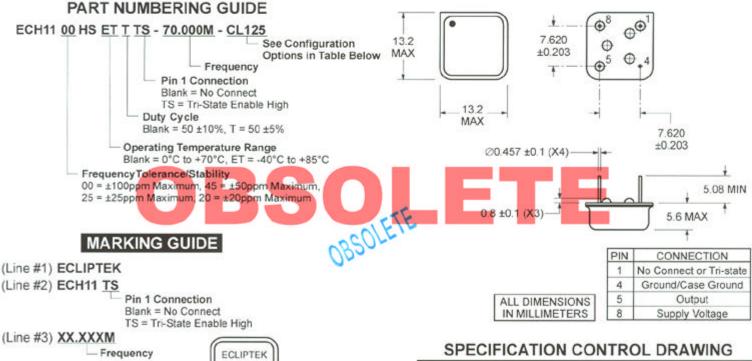
In compliance with our End of Life (EOL) policy, this notice will serve as advanced notice of product termination. New orders will not be accepted after Saturday, July 01, 2000, with delivery to be conclude by Saturday, September 30, 2000.

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)	ODICIMAL
00	±100ppm Max.	ORIGINAL
45	±50ppm Max.	IF IN RED 1
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, Vop-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 (VIH & VIL)	+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	
	ENVIRONMENTAL & MECHANICAL	NESCOND DE PRESENTA
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	
and the second s		



Conditions and Criteria Listed in TQC41-883-001

CONFIGURATION OPTIONS

- Week of Year Last Digit of Year

Marking Permenancy

(Line #4) XX Y ZZ

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

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.

ECH11TS

XX XXXM

XXYZZ

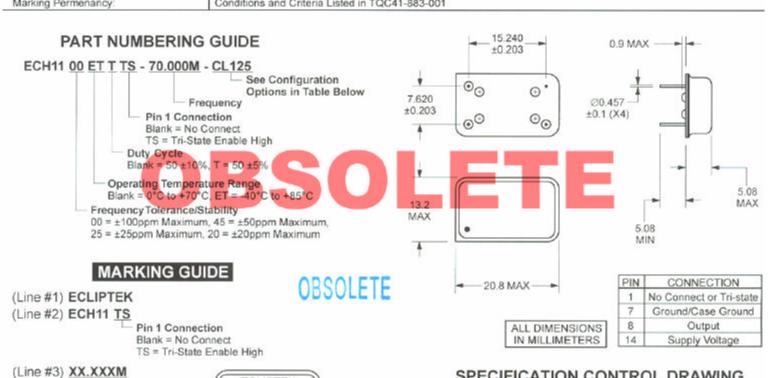


Drawing Number

CSC02-200-000

HALF SIZE HIGH FREQUENCY OSCILLATOR

ALL DESCRIPTION OF THE PARTY OF	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. 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	5.0Vdc ±10%	
Input Current	50mA Maximum	
Output Voltage Logic High	2.4Vdc Min. w/TTL Load, Vpp-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)	
Т	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 (Viн & ViL)	+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	
The state of the last of the l	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 Permenancy:	Conditions and Criteria Listed in TQC41-883-001	



- Frequency ECH11TS MXXXXXM (Line #4) XX Y ZZ XXYZZ 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.

ECLIPTEK

CONFIGURATION OPTIONS

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

SPECIFICATION CONTROL DRAWING

Drawing Number CSC01-200-000 CORPORATION

Title

FULL SIZE HIGH FREQUENCY OSCILLATOR