

## **Marketing Bulletin**

**DATE:** Tuesday, February 01, 2000

**TO:** Affected Customers

FROM: Marketing

**RE:** EC18 Series Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the EC18 series Ecliptek oscillator effective Tuesday, February 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 Tuesday, February 01, 2000, with delivery to be conclude by Tuesday, February 01, 2000.

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

**Ecliptek Marketing** 

requency Range:	STANDARD SPEC 70.000MHz to 125.000MHz (See dragin		f qualified frequencies
requency Tolerance/Stability:	(All Values Inclusive of Temperature, Vo		quained requencies.)
00	±100ppm Max	oltage, and Load)	
	Control of the Contro		ADIOINIAL
45	±50ppm Max.		ORIGINAL
25	±25ppm Max. (0°C to +70°C only)		IE IN DED
Operating Temperature Range	0°C to +70°C		II IN IVED
	-40°C to +85°C		
Storage Temperature Range	-55°C to +125°C		
Aging (@ 25°C)	±5ppm/year Maximum		
Supply Voltage (VDD)	3.3Vdc ±10%		
nput Current (IDD)	≤ 100.000MHz 40mA Maximum, > 100.	000MHz 50mA Maximum	
Output Voltage Logic High (Voн)	VDD-0.4Vdc Min.	OCCUPITE SOTION MAXIMUM	
Output Voltage Logic Low (Vol.)	0.4Vdc Max.		
Outy Cycle (@ 25°C)	50% ±10% (@ 50% of waveform)		
	50% ±5% (@ 50% of waveform)		
Rise/Fall Time	3nSec Max. (10% to 90% of waveform)		
oad Drive Capability	15pF HCMOS Load Maximum		
Pin 1 Connection			
Blank	No Connect		
rs	Tri-State (High Impedence)		
ri-State Input Voltage (VIH & VIL)	+0.8Vdd Min. to Enable Output, +0.2Vdd	d Max to Disable Output (High Imped	lence) No Connect to Enable Outs
Standby Current	10μA Maximum (Disabled Output = High		isince), No connect to Enable Out
Start Up Time	10 mSec Maximum	impedance)	
litter (Absolute)	±100pSec Maximum		
litter (One Sigma)	±25pSec Maximum		
CHANGE THE RESERVE	ENVIRONMENTAL &	MECHANICAL	THE RESERVE AND ADDRESS OF THE PERSON.
Shock:	Conditions and Criteria Listed in TQC41		
Martin Ma			
fibration:	Conditions and Criteria Listed in TQC41		
Seal Integrity:	Conditions and Criteria Listed in TQC41		
Solderability:	Conditions and Criteria Listed in TQC41	-883-004 - 95% coverage	
PART NUMBERING EC18 00 SJ ET T TS - 24.0	Conditions and Criteria Listed in TQC41   NG GUIDE	-883-001 510 -203	1 4 5.08
PART NUMBERING EC18 00 SJ ET T TS - 24.0	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  0.  1.  See Packaging Options in Table Below  Frequency in MHz	-883-001	AX 2 3 5.08 ±0.203
PART NUMBERING EC18 00 SJ ET T TS - 24.0	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  000 M TR  See Packaging Options in Table Below	-883-001 510 -203	2 3 ±0.203
PART NUMBERING EC18 00 SJ ET T TS - 24.00 Pin 1 Blank TS = 1 Duty Cyc Blank = 5	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection  No Connect  Tri-state	-883-001 510 -203 13.2 M	2 3 ±0.203
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Puty Cyc Blank = 5 T = 50% Operating To	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection  No Connect  Tri-state	-883-001 510 -203 13.2 M	2 3 ±0.203
PART NUMBERIN EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50% Operating T Blank = 0°C ET = -40°C to	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle  10% ±10% ±5%  Emperature Range to 70°C 0 +85°C	-883-001 510 -203 13.2 M	±0.203 10.2 MAX
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1  Blank TS = 1  Duty Cyc  Blank = 5 T = 50%  Operating T  Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maximus 45 = ±50ppm Maximus	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below Frequency in MHz  Connection = No Connect Tri-state  cle 10% ±10% ±5% emperature Range to 70°C 0 +85°C te/Stability num	-883-001 510 -203 13.2 M	±0.203 10.2 MAX 10.25 MIN
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50% Operating T Blank = 0°C ET = -40°C to Frequency Toleranc 00 = ±100ppm Maxim	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below Frequency in MHz  Connection = No Connect Tri-state  cle 10% ±10% ±5% emperature Range to 70°C 0 +85°C te/Stability num	-383-001 510 -203 13.2 M	±0.203 10.2 MAX 0.25 MIN
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank = 5 T = 50%  Operating T Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maximu 45 = ±50ppm Maximu 25 = ±25ppm Maximu	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability  num  um	-383-001 510 -203 13.2 M 6.7 ±0.2	±0.203 10.2 MAX 10.25 MIN
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1  Blank TS = 1  Duty Cyc  Blank = 5 T = 50%  Operating T  Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maximus 45 = ±50ppm Maximus	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability  num  um	PIN CONNECTION  1 No Connect or Tri-State	±0.203 10.2 MAX 10.25 MIN
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank = 5 T = 50%  Operating T Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maximu 45 = ±50ppm Maximu 25 = ±25ppm Maximu	Conditions and Criteria Listed in TQC41  NG GUIDE  0.  See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability  num  um	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output	±0.203 10.2 MAX 10.25 MIN
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50%  Operating To Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage	2 3 ±0.203  10.2  MAX  7.62  ±0.203  ALL DIMENSIONS IN MILLIMETERS
PART NUMBERIN  EC18 00 SJ ET T TS - 24.0  Pin 1  Blank TS = 1  Duty Cyc Blank = 5 T = 50%  Operating T  Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maximu 45 = ±50ppm Maximu 25 = ±25ppm Maximu  MARKING GI  (Line #1) ECLIPTEK	Conditions and Criteria Listed in TQC41  NG GUIDE  O. See Packaging Options in Table Below  Frequency in MHz  Connection  = No Connect  Tri-state  Cle 10% ±10%  ±5%  Emperature Range to 70°C 0 +85°C  ce/Stability  num  JIDE  ECLIPTEK  XX.XXXM	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION	10.2 MAX  10.2 MAX  10.25 MIN  7.62 ±0.203  ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING
PART NUMBERIN  EC18 00 SJ ET T TS - 24.0  Pin 1  Blank TS = 1  Duty Cyc  Blank = 5°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM  Frequency in	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION  ECLIPTEK	10.2 MAX  10.2 MAX  10.2 MAX  10.25 MIN  7.62 ±0.203  ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING  Drawing Number
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50%  Operating To Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM	Conditions and Criteria Listed in TQC41  NG GUIDE  O. See Packaging Options in Table Below  Frequency in MHz  Connection  = No Connect  Tri-state  Cle 10% ±10%  ±5%  Emperature Range to 70°C 0 +85°C  ce/Stability  num  JIDE  ECLIPTEK  XX.XXXM	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION	10.2 MAX  10.2 MAX  10.25 MIN  7.62 ±0.203  ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 7  Duty Cyc Blank = 5 T = 50%  Operating To Blank = 0°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM  Frequency in  (Line #3) XX Y ZZ  Week of	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE  ECLIPTEK  XX.XXXM  XXYZZ  Year	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION  ECLIPTEK	10.2 MAX  10.2 MAX  10.2 MAX  10.25 MIN  7.62 ±0.203  ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING  Drawing Number
PART NUMBERING EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50%  Operating To Blank = 0°C ET = -40°C to Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM Frequency in  (Line #3) XX Y ZZ	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE  ECLIPTEK  XX.XXXM  XXYZZ  Year	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION  Title	ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING  Drawing Number  CSC16-102-000
PART NUMBERIN  EC18 00 SJ ET T TS - 24.0  Pin 1  Blank TS = 1  Duty Cyc  Blank = 5°C ET = -40°C to  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM  Frequency in  (Line #3) XX Y ZZ  Week of Last Digit of	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE  ECLIPTEK  XX.XXXM  XXYZZ  Year	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION  Title	ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING  Drawing Number  CSC16-102-000
PART NUMBERIN  EC18 00 SJ ET T TS - 24.0  Pin 1 Blank TS = 1  Duty Cyc Blank = 5 T = 50%  Operating T Blank = 0°C t ET = -40°C t  Frequency Toleranc 00 = ±100ppm Maxim 45 = ±50ppm Maxim 25 = ±25ppm Maxim  MARKING GI  (Line #1) ECLIPTEK  (Line #2) XX.XXXM  Frequency in  (Line #3) XX Y ZZ  Week of Last Digit of Ecliptek Manufa  NOTE: Marking shall	Conditions and Criteria Listed in TQC41  NG GUIDE  0. See Packaging Options in Table Below  Frequency in MHz  Connection = No Connect  Tri-state  Cle 10% ±10% ±5%  emperature Range to 70°C 0 +85°C ce/Stability num  UIDE  ECLIPTEK  XX.XXXM  XXYZZ  Year FYear	PIN CONNECTION 1 No Connect or Tri-State 2 Ground/Case Ground 3 Output 4 Supply Voltage  SPECIFICATION  Title	ALL DIMENSIONS IN MILLIMETERS  CONTROL DRAWING  Drawing Number  CSC16-102-000
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