ECLIPTEK® CORPORATION

Marketing Bulletin

DATE: December 27th, 2006

TO: All Sales Personnel

FROM: Mark Stoner

RE: Product Termination

To all concerned parties,

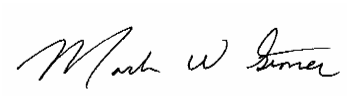
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective December 27th, 2006:

Series	Description	Recommended Replacement
EC20	3.3V 14 pin DIP Oscillator	EB52F3 or EB52F5

In compliance with our End of Life (EOL) policy, this will serve as advanced notice of product termination. New orders will not be accepted after March 31st, 2007, with delivery to conclude by June 30th 2007.

If there are any questions pertaining to this bulletin, please fell free to contact me. Thank you again for your cooperation.

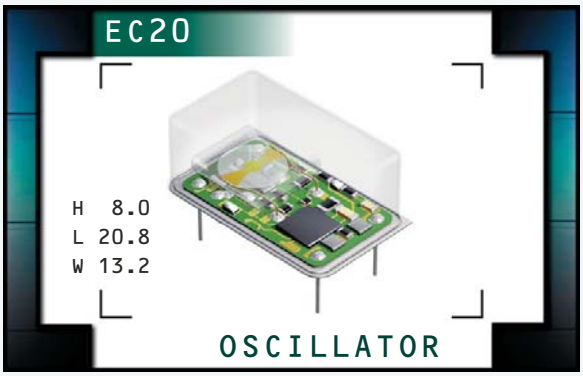
Best Regards,



Mark W. Stoner
Vice President of Marketing
Ecliptek Corporation

EC20 Series

- RoHS Compliant (Pb-free)
- HCMOS output
- 3.3V supply voltage
- 14 pin DIP package
- Stability to ±5ppm
- Custom lead length, gull wing options available



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ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)		1.000MHz to 50.000MHz	
Operating Temperature Range		Per Table 1	
Storage Temperature Range		-55°C to 125°C	
Supply Voltage (V_{DD})		3.3V_{DC} ±10%	
Input Current	1.000MHz to 20.000MHz	10mA Maximum	
	20.001MHz to 50.000MHz	20mA Maximum	
Frequency Tolerance / Stability	vs. Operating Temperature Range	Per Table 1	
	vs. Input Voltage (V_{DD} ±5%)	±2.0ppm Maximum	
	vs. Load (±2pF)	±1.0ppm Maximum	
Internal Trim (Top of Can)		±5ppm Minimum	
Output Voltage Logic High (V_{OH})	w/HCMOS Load	2.7V_{DC} Minimum	I_{OH} = -8mA
Output Voltage Logic Low (V_{OL})	w/HCMOS Load	0.5V_{DC} Maximum	I_{OL} = +8mA
Rise Time / Fall Time	10% to 90% of Waveform ≤ 20.000MHz	10 nSeconds Maximum	
	10% to 90% of Waveform > 20.000MHz	6 nSeconds Maximum	
Duty Cycle	at 50% of Waveform	50 ±10(%) (Standard) or 50 ±5(%) (Optional)	
Load Drive Capability		15pF HCMOS Load	
Tri-State Input Voltage	V_{IH}: No Connection	Enables Output	
	V_{IH}: ≥2.2V_{DC}	Enables Output	
	V_{IL}: ≤0.8V_{DC}	Disables Output: High Impedance	
Aging (at 25°C)		±1ppm / year Maximum	
Start Up Time		10 mSeconds Maximum	
Period Jitter: Absolute		±100pSeconds Maximum	
Period Jitter: One Sigma		±25pSeconds Maximum	

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EC20	14 pin DIP	3.3V	OS61	08/06

PART NUMBERING GUIDE

EC20 07 A R T TS - 24.000M - CL125

FREQUENCY STABILITY
2 Digit Code Per Table 1

OPERATING TEMPERATURE RANGE
1 Letter Code Per Table 1

INTERNAL TRIM OPTIONS
Blank=No Internal Trim
R=±5ppm Minimum (Top of Can)

DUTY CYCLE
Blank=50 ±10(%) (Standard)
T=50 ±5(%)

AVAILABLE OPTIONS
Blank=None (Standard)
CLXXX=Custom Lead Length (See Page 133)
G=Full Size Gull Wing (See Page 132)

FREQUENCY

OUTPUT CONTROL FUNCTION
TS=Tri-State Enable High

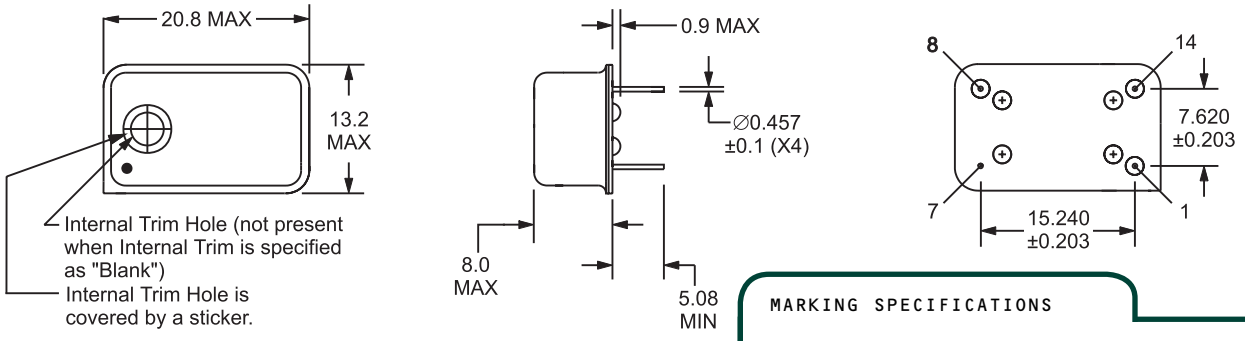
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TABLE 1: PART NUMBERING CODES

Operating Temperature Range		Frequency Stability X = Availability with Internal Trim Option "Blank" Y = Availability with Internal Trim Option "R"				
		±5ppm	±7ppm	±10ppm	±15ppm	±20ppm
	Code	05	07	10	15	20
0°C to +50°C	A	Y	X, Y	X, Y	X, Y	X, Y
-10°C to +60°C	B		X, Y	X, Y	X, Y	X, Y
-20°C to +70°C	C			X, Y	X, Y	X, Y
-40°C to +85°C	D					X, Y

MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



Pin 1: Tri-State
Pin 7: Case Ground
Pin 8: Output
Pin 14: Supply Voltage

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: EC20 TS
- TS = Tri-State Enable High — Output Control Function
- Series Designator

Line 3: XX.XXX M
- Frequency in MHz (5 Digits Maximum + Decimal)

Line 4: XX Y ZZ
- ZZ — Week of Year
- Y — Last Digit of Year
- XX — Ecliptek Manufacturing Identifier

Note: Pin 1 shall be designated with a dot

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic	Specification
Mechanical Shock	MIL-STD-202, Method 213, Condition C
Vibration	MIL-STD-883, Method 2007, Condition A
Lead Integrity	MIL-STD-883, Method 2004
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	EC20	14 pin DIP	3.3V	OS61	08/06