



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 feel free to contact me.
Thank you again for your cooperation.

Best Regards,

Mark W. Stoner
Vice President of Marketing
Ecliptek Corporation

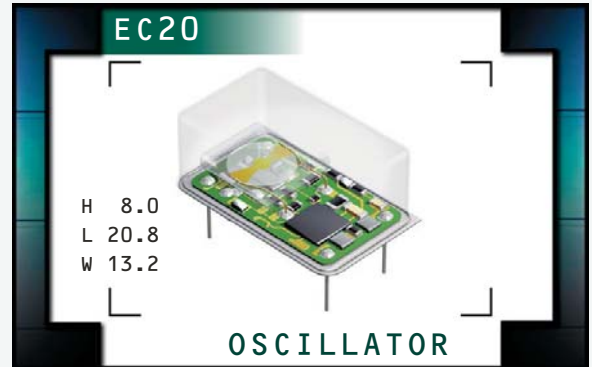


EC20 Series

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



ECLIPTEK®
CORPORATION



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} $\pm 10\%$	
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 ($V_{DD} \pm 5\%$)	$\pm 2.0\text{ppm}$ Maximum	
	vs. Load ($\pm 2\text{pF}$)	$\pm 1.0\text{ppm}$ Maximum	
Internal Trim (Top of Can)		$\pm 5\text{ppm}$ Minimum	
Output Voltage Logic High (V_{OH})	w/HCMOS Load	2.7V _{DC} Minimum	$I_{OH} = -8\text{mA}$
Output Voltage Logic Low (V_{OL})	w/HCMOS Load	0.5V _{DC} Maximum	$I_{OL} = +8\text{mA}$
Rise Time / Fall Time	10% to 90% of Waveform $\leq 20.000\text{MHz}$	10 nSeconds Maximum	
	10% to 90% of Waveform $> 20.000\text{MHz}$	6 nSeconds Maximum	
Duty Cycle	at 50% of Waveform	50 $\pm 10\%$ (Standard) or 50 $\pm 5\%$ (Optional)	
Load Drive Capability		15pF HCMOS Load	
Tri-State Input Voltage	V_{IH} : No Connection	Enables Output	
	V_{IH} : $\geq 2.2V_{DC}$	Enables Output	
	V_{IL} : $\leq 0.8V_{DC}$	Disables Output: High Impedance	
Aging (at 25°C)		$\pm 1\text{ppm} / \text{year}$ Maximum	
Start Up Time		10 mSeconds Maximum	
Period Jitter: Absolute		$\pm 100\text{pSeconds}$ Maximum	
Period Jitter: One Sigma		$\pm 25\text{pSeconds}$ Maximum	

PART NUMBERING GUIDE

EC20 07 A R TTS - 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

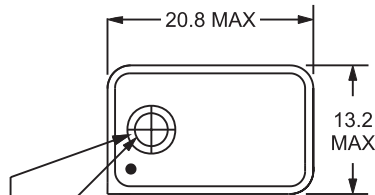
TS=Tri-State Enable High

TABLE 1: PART NUMBERING CODES

Operating Temperature Range	Code	Frequency Stability				
		X = Availability with Internal Trim Option "Blank" Y = Availability with Internal Trim Option "R"				
		±5ppm	±7ppm	±10ppm	±15ppm	±20ppm
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

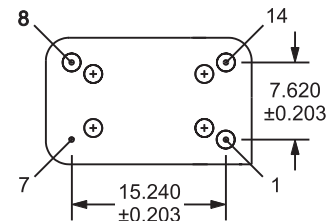
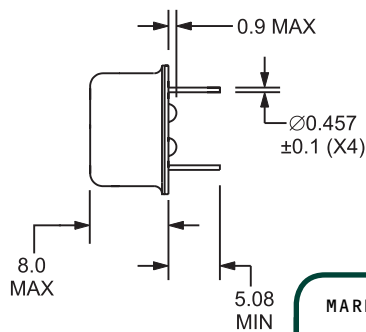
ALL DIMENSIONS IN MILLIMETERS



Internal Trim Hole (not present when Internal Trim is specified as "Blank")
Internal Trim Hole is covered by a sticker.

Pin 1: Tri-State
Pin 7: Case Ground

Pin 8: Output
Pin 14: Supply Voltage



ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic

Mechanical Shock
Vibration
Lead Integrity
Solderability
Temperature Cycling
Resistance to Soldering Heat
Resistance to Solvents

Specification

MIL-STD-202, Method 213, Condition C
MIL-STD-883, Method 2007, Condition A
MIL-STD-883, Method 2004
MIL-STD-883, Method 2002
MIL-STD-883, Method 1010
MIL-STD-883, Method 210
MIL-STD-883, Method 215

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: EC20 TS

Output Control Function
TS = Tri-State Enable High

Series Designator

Line 3: XX.XXX M

Frequency in MHz
(5 Digits Maximum + Decimal)

Line 4: XX Y ZZ

Week of Year
Last Digit of Year
Eclipse Manufacturing Identifier

Note: Pin 1 shall be designated with a dot