

Marketing Bulletin

DATE: September 20th, 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 September 20th, 2006:

Series Description Recommended Replacement

EC14 5V 4 pad SMD Plastic Oscillator EP14 or EH14

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 September 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

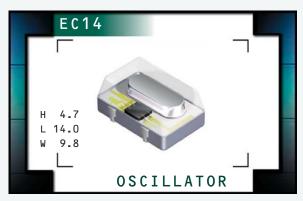
Mark W Somer

Ecliptek Corporation

EC14 Series

- Plastic surface mount package
- 5.0V supply voltage
- HCMOS/TTL output
- Stability to ±50ppm
- Available on tape and reel





ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)					1.000MHz to 66.667MHz				
Operating Temperature Range					0°C to 70°C or -40°C to 85°C (≤30.000MHz)				
Storage Temperature Range						-55°C to 125°C			
Supply Voltag	ge (V _{DD})				5.0V _{DC} ±10%				
Frequency Tolerance / Stability*		Inclusive of Operating Temperature Range,			±100ppm Maximum or				
		Supply Voltage, and Load			±50ppm Maximum (0°C to 70°C Only)				
Input Current		≤30.000MHz			23mA Maximum (Unloaded)				
		30.001MHz to 50.000MHz			35mA Maximum (Unloaded)				
		>50.000MHz			50mA Maximum (Unloaded)				
Load Drive Capability		≤53.125MHz			10TTL Load or 50pF HCMOS Load				
		>53.125MHz			15pl	F HCMOS Load			
Output Voltage Logic High (V _{OH})		w/∏L Load		$I_{OH} = -16 \text{ m}$		= -16mA			
		w/HCMOS Load			V _{DD} -0	0.5V _{DC} Minimum	\mathbf{I}_{OH} :	= -16mA	
Output Voltage Logic Low (V _{oL})		w/TTL Load			$0.4V_{DC}$ Maximum $I_{OL} = +16mA$				
		w/HCMOS Load			$0.5V_{DC}$ Maximum $I_{OL} = +16mA$				
Duty Cycle		at 50% of waveform w/HCMOS Load at 1.4V $_{\rm DC}$ w/TTL Load			50 ±10(%) (Standard)				
		at 1.4V _{DC} w/HCMOS Load or w/TTL Load			50 ±5(%) (Optional)				
Rise Time / Fall Time		20% to 80% of waveform w/HCMOS Load;			8 nSeconds Maximum				
		$0.4V_{DC}$ to $2.4V_{DC}$ w _/	/TTL Load						
Aging (at 25	°C)				±5ppm/year Maximum				
Tri-State Input Voltage		No Connection			Enables Output				
		V_{IH} : \geq 2.0 V_{DC}			Enables Output				
		V_{IL} : \leq 0.8 V_{DC}			Disables Output: High Impedance				
Start Up Time	e	1.000MHz to 26.000MHz			4 mSeconds Maximum				
		26.001MHz to 66.667MHz			10 mSeconds Maximum				
Period Jitter: Absolute					±100pSeconds Maximum				
Period Jitter: One Sigma						±25pSeconds Maximum			
MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE		CLASS		REV . DA	

PLASTIC

EC14

5.0V

0S33

OSCILLATOR

ECLIPTEK CORP.

PART NUMBERING GUIDE EC14 00 SJ ET T TS - 25.000M TR FREQUENCY TOLERANCE / STABILITY PACKAGING OPTIONS 00=±100ppm Maximum (Standard) Blank=Bulk 45=±50ppm Maximum TR=Tape and Reel (Standard) **OPERATING TEMP. RANGE FREQUENCY** Blank=0°C to 70°C ET=-40°C to 85°C **OUTPUT CONTROL FUNCTION** TS=Tri-State Enable High **DUTY CYCLE** Blank= $50 \pm 10(\%)$ (Standard) $T=50 \pm 5(\%)$ MECHANICAL DIMENSIONS SUGGESTED SOLDER PAD LAYOUT ALL DIMENSIONS IN MILLIMETERS ALL DIMENSIONS IN MILLIMETERS 3.81 5.08 ±0.203 0.25 MIN Solder Land (X4) 7.62 ±0.203 98 MAX 5.80 0.510 ±0.203 MAX MAX Tolerances = ± 0.1 Pin 1: Tri-State Pin 3: Output Pin 2: Case Ground Pin 4: Supply Voltage TAPE AND REEL DIMENSIONS ALL DIMENSIONS IN MILLIMETERS M-ØH-ØQ (Access Hole at Slot Location) В U ØN C R Width S Depth (Tape Slot in Core for Tape Start) ØO. **-** G -ØP REEL TAPF 1.5 MIN 50 MIN 20.2 MIN 40 MIN 13 + .224 ±.3 11.5 ±.1 10.75 ±.1 4 ±.2 2±.1 QTY/REE 2.5 MIN B0* 1.5 +.1-0 A0* K0* 10 MIN 30.4 MAX 360 MAX 24.4+2-0 1.000 *Compliant to EIA 481A ENVIRONMENTAL/MECHANICAL SPECIFICATIONS MARKING SPECIFICATIONS Specification Line 1: ECLIPTEK Characteristic Seal Integrity Bubble test in Perfluorocarbon at +125°C ±5°C for 60 seconds

