

Marketing Bulletin

DATE: September 20th, 2006

TO: All Sales Personnel

FROM: Mark Stoner

RE: Product Termination

To all concerned parties,

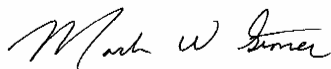
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective September 20th, 2006:

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

Best Regards,



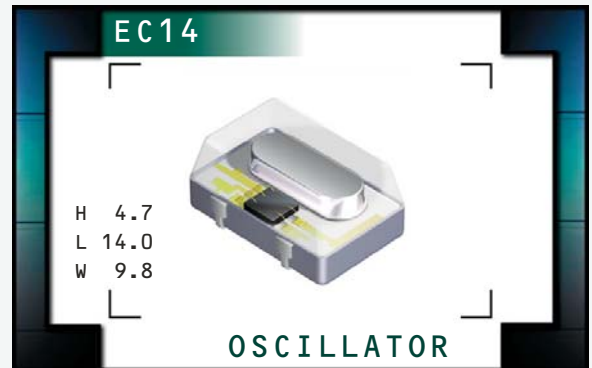
Mark W. Stoner
Vice President of Marketing
Ecliptek Corporation

查询"EC14"供应商



EC14 Series

- Plastic surface mount package
- 5.0V supply voltage
- HCMOS/TTL output
- Stability to $\pm 50\text{ppm}$
- 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 ($\leq 30.000\text{MHz}$)	
Storage Temperature Range		-55°C to 125°C	
Supply Voltage (V_{DD})		5.0V _{DC} $\pm 10\%$	
Frequency Tolerance / Stability*	Inclusive of Operating Temperature Range, Supply Voltage, and Load	$\pm 100\text{ppm}$ Maximum or $\pm 50\text{ppm}$ Maximum (0°C to 70°C Only)	
Input Current	$\leq 30.000\text{MHz}$	23mA Maximum (Unloaded)	
	30.001MHz to 50.000MHz	35mA Maximum (Unloaded)	
	$> 50.000\text{MHz}$	50mA Maximum (Unloaded)	
Load Drive Capability	$\leq 53.125\text{MHz}$	10TTL Load or 50pF HCMOS Load	
	$> 53.125\text{MHz}$	15pF HCMOS Load	
Output Voltage Logic High (V_{OH})	w/TTL Load	2.4V _{DC} Minimum	$I_{OH} = -16\text{mA}$
	w/HCMOS Load	$V_{DD} - 0.5V_{DC}$ Minimum	$I_{OH} = -16\text{mA}$
Output Voltage Logic Low (V_{OL})	w/TTL Load	0.4V _{DC} Maximum	$I_{OL} = +16\text{mA}$
	w/HCMOS Load	0.5V _{DC} Maximum	$I_{OL} = +16\text{mA}$
Duty Cycle	at 50% of waveform w/HCMOS Load at 1.4V _{DC} w/TTL Load	50 $\pm 10\%$ (Standard)	
	at 1.4V _{DC} w/HCMOS Load or w/TTL Load	50 $\pm 5\%$ (Optional)	
Rise Time / Fall Time	20% to 80% of waveform w/HCMOS Load; 0.4V _{DC} to 2.4V _{DC} w/TTL Load	8 nSeconds Maximum	
Aging (at 25°C)		$\pm 5\text{ppm}$ / year Maximum	
Tri-State Input Voltage	No Connection	Enables Output	
	$V_{IH} \geq 2.0V_{DC}$	Enables Output	
	$V_{IL} \leq 0.8V_{DC}$	Disables Output: High Impedance	
Start Up Time	1.000MHz to 26.000MHz	4 mSeconds Maximum	
	26.001MHz to 66.667MHz	10 mSeconds Maximum	
Period Jitter: Absolute		$\pm 100\text{pSeconds}$ Maximum	
Period Jitter: One Sigma		$\pm 25\text{pSeconds}$ Maximum	

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EC14

PACKAGE
PLASTIC

VOLTAGE
5.0V

CLASS
OS33

REV. DATE
08/06

查询"EC14"供应商

PART NUMBERING GUIDE

EC14 00 SJ ET TS - 25.000M TR

FREQUENCY TOLERANCE / STABILITY

00=±100ppm Maximum (Standard)
45=±50ppm Maximum

OPERATING TEMP. RANGE

Blank=0°C to 70°C
ET=-40°C to 85°C

DUTY CYCLE

Blank=50 ±10(%) (Standard)
T=50 ±5(%)

PACKAGING OPTIONS

Blank=Bulk
TR=Tape and Reel (Standard)

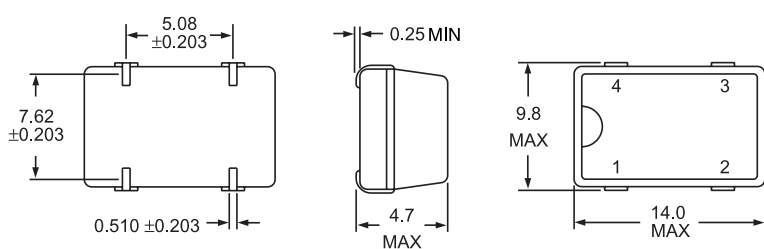
FREQUENCY

OUTPUT CONTROL FUNCTION

TS=Tri-State Enable High

MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS

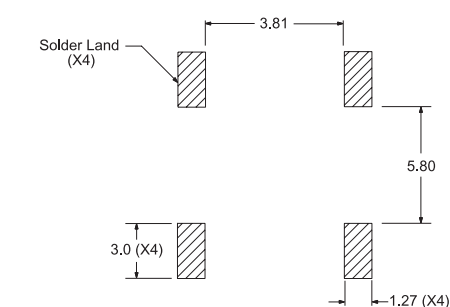


Pin 1: Tri-State
Pin 2: Case Ground

Pin 3: Output
Pin 4: Supply Voltage

SUGGESTED SOLDER PAD LAYOUT

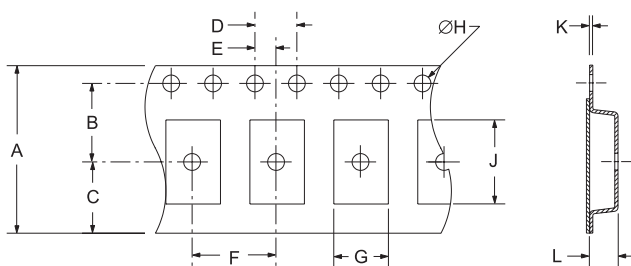
ALL DIMENSIONS IN MILLIMETERS



Tolerances = ±0.1

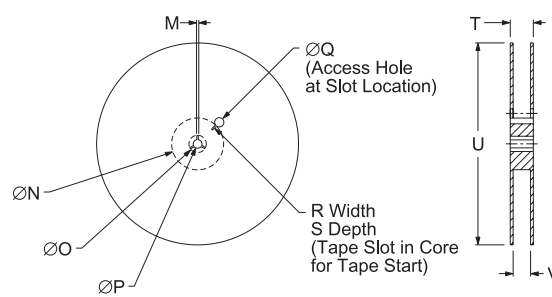
TAPE AND REEL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



TAPE	A	B	C	D	E
	24 ±3	11.5 ±1	10.75 ±1	4 ±2	2 ±1
F	G	H	J	K	L
12 ±2	B0*	1.5 ±1-0	A0*	.3 ±1	K0*

*Compliant to EIA 481A



REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13 ±2	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	30.4 MAX	360 MAX	24.4 ±2-0	1,000

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic	Specification
Seal Integrity	Bubble test in Perfluorocarbon at +125°C ±5°C for 60 seconds minimum (internal crystal only).
Solderability	Sn63 Solder dip at +230°C ±5°C for 5 seconds/95% coverage.
Marking Permanency	10 Strokes with brush after 1 minute soak in solvent, 3 times.
Shock	Random drop on hard wooden plate 3 times from a height of 20cm.
Vibration	Frequency with an amplitude of 1.5mm sweeping between 10Hz to 55Hz within 1 minute (approximately) for 2 hours minimum on each axis (X, Y and Z) for a total of 6 hours.

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: XX.XXX M

Frequency in MHz (5 Digits Maximum + Decimal)

Line 3: XX YY ZZ

Week of Year

Last Digit of Year

Eclipse Manufacturing Identifier

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EC14

PACKAGE
PLASTIC

VOLTAGE
5.0V

CLASS
OS33

REV. DATE
08/06