

Marketing Bulletin

DATE: November 7th, 2007

TO: All Sales Personnel

FROM: Isaac Gonzalez

RE: Product Termination

To all concerned parties,

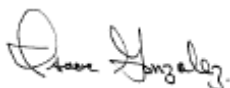
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective November 7th, 2007:

Series	Description	Recommended Replacement
EB14E2	3.0V 4 Pad SMD Ceramic Oscillator	EB13E2 or EB15E2

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 May 31th, 2008, with delivery to conclude by November 30th 2008.

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

Best Regards,



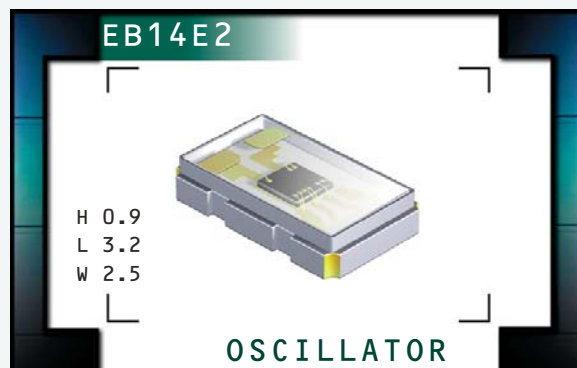
Isaac Gonzalez
Configuration Manager
Ecliptek Corporation

EB14E2 Series

- RoHS Compliant (Pb-Free)
- Ceramic SMD package
- 3.0V Supply Voltage
- LVHCMOS output
- Stability to ± 25 ppm
- Standby Function
- Available on Tape and Reel



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ECLIPTEK
CORPORATION



NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range (F_0)	1.8432MHz, 3.5795MHz, 3.6864MHz, 4.000MHz, 6.000MHz, 7.3728MHz, 8.000MHz, 8.2944MHz, 11.2896MHz, 12.000MHz, 12.288MHz, 12.800MHz, 16.000MHz, 16.9344MHz, 20.000MHz, 22.000MHz, 22.1184MHz, 24.000MHz, 24.576MHz, 25.000MHz, 26.000MHz, 27.000MHz, 28.375MHz, 28.636MHz, 29.4912MHz, 30.000MHz, 32.000MHz, 33.000MHz, 33.333MHz, 40.000MHz, 41.010MHz, 44.000MHz, 48.000MHz, 50.000MHz, 54.000MHz, 64.000MHz, 66.000MHz, 66.6666MHz, 72.000MHz, and 75.000MHz	
Operating Temperature Range (OTR)	-20°C to 70°C -40°C to 85°C	
Storage Temperature Range (STR)	-55°C to 125°C	
Supply Voltage (V_{DD})	3.0V _{DC} $\pm 5\%$	
Input Current (I_{DD})	1.8432MHz to 20.000MHz 20.001MHz to 40.000MHz 40.001MHz to 60.000MHz 60.001MHz to 75.000MHz	6mA Maximum 11mA Maximum 16mA Maximum 20mA Maximum
Frequency Tolerance/Stability	Inclusive of all conditions: Calibration Tolerance at 25°C, Frequency Stability over the Operating Temperature Range, Supply Voltage Change, Output Load Change, First Year Aging at 25°C, Shock, and Vibration	± 100 ppm, ± 50 ppm, or ± 25 ppm Maximum
Output Voltage Logic High (V_{OH})	90% of V_{DD} Minimum ($I_{OH} = -4$ mA)	
Output Voltage Logic Low (V_{OL})	10% of V_{DD} Maximum ($I_{OL} = +4$ mA)	
Rise Time / Fall Time (T_R/T_F)	20% to 80% of Waveform	10 nSeconds Maximum
Duty Cycle (SYM)	at 50% of Waveform	50 ± 5 (%)
Load Drive Capability (C_{LOAD})	15pF HCMOS Load Maximum	
Tri-State Input Voltage	No Connection $V_{IH} \geq 80\%$ of V_{DD} $V_{IL} \leq 20\%$ of V_{DD}	Enables Output Enables Output Disables Output: High Impedance
Standby Current	Disabled Output: High Impedance	10 μ A Maximum
Start Up Time (T_S)	10 mSeconds Maximum	
RMS Phase Jitter	$F_J = 12$ kHz to 20MHz	1 pSeconds Maximum

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
EB14E2

PACKAGE
CERAMIC

VOLTAGE
3.0V

CLASS
OS5B

REV. DATE
02/06

PART NUMBERING GUIDE

EB14E2 E 2 H - 40.000M TR

FREQUENCY TOLERANCE / STABILITY

C=±100ppm Maximum over -20°C to +70°C

D=±50ppm Maximum over -20°C to +70°C

E=±25ppm Maximum over -20°C to +70°C

G=±100ppm Maximum over -40°C to +85°C

H=±50ppm Maximum over -40°C to +85°C

J=±25ppm Maximum over -40°C to +85°C

PACKAGING OPTIONS

Blank=Bulk, TR=Tape and Reel (Standard)

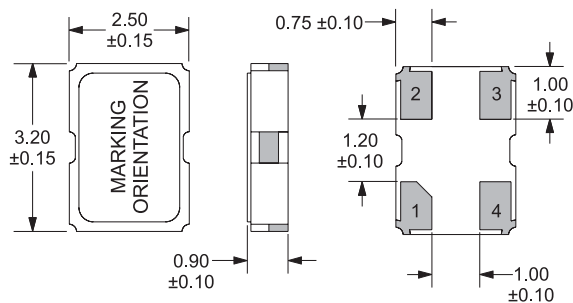
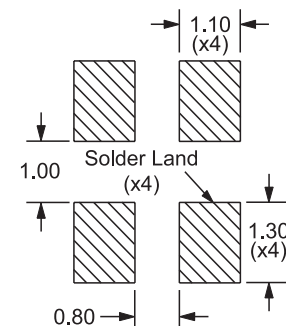
FREQUENCY

OUTPUT CONTROL FUNCTION

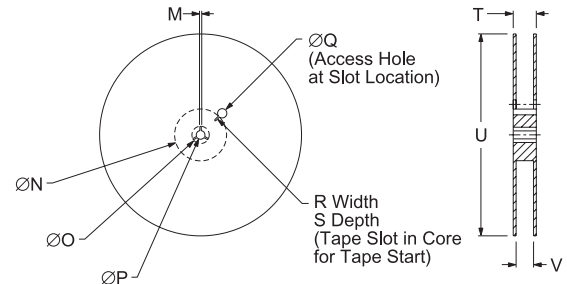
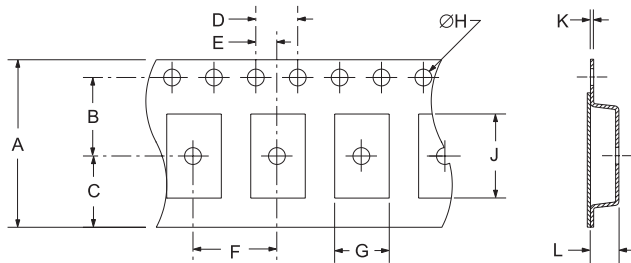
H=Tri-State

DUTY CYCLE

5(%)

OBSOLETEMECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERSPin 1: Tri-State
Pin 2: Case GroundPin 3: Output
Pin 4: Supply VoltageSUGGESTED SOLDER PAD LAYOUT
ALL DIMENSIONS IN MILLIMETERS

Tolerances=±0.1

TAPE AND REEL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS

TAPE	A	B	C	D	E
	8.0±0.2	3.5±0.1	2.75±0.1	4.0±0.1	2.0±0.1
F	G	H	J	K	L
4.0±0.1	2.7±.1	1.55 ±0.5	3.4±.1	0.25 ±0.05	1.4±.1

REEL	M	N	O	P	Q
	1.5 MIN	50 MIN	20.2 MIN	13.0±0.5	40 MIN
R	S	T	U	V	QTY/REEL
2.5 MIN	10 MIN	14.4 MAX	180 MAX	8.4+1.5-0	1,000

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

PARAMETER

Specification

Fine Leak Test	JIS C 6701 10.6 Leak Rate: 2.1×10^{-9} Pa-m ³ /6 Maximum.
Gross Leak Test	JIS C 6701 10.6 Leak Rate: 1.27×10^{-5} Pa-m ³ /8 Maximum.
Mechanical Shock	Random drop on rigid hard wood surface 3 times at heights of 75cm.
High Temperature Storage	JIS C 7021 B-10: at 85°C for 1000 hours.
Low Temperature Storage	JIS C 7021 B-12: at -40°C for 1000 hours.
Moisture Resistance	JIS C 7021 B-11: at 85°C and 90% humidity for 1000 hours.
Solder Thermal Stabilit	Recommended Solder Reflow profile 1 time.
Thermal Shock	100 cycles over -40°C to +85°C for 30 minutes
Vibration	JIS C 6701 10.26: at 10Hz to 55Hz, 1.5mm amplitude for 1 minute. Test time: X, Y, Z each direction for 2 hours.

MARKING SPECIFICATIONS

Line 1: E XX.X

Frequency in MHz (3 Digits Maximum + Decimal)

Line 2: XX Y ZZ

Week of Year

Last Digit of Year

Ecliptek Manufacturing Identifier

MANUFACTURER
ECLIPTEK CORP.CATEGORY
OSCILLATORSERIES
EB14E2PACKAGE
CERAMICVOLTAGE
3.0VCLASS
055BREV. DATE
02/06