ECLIPTEK® CORPORATION

Marketing Bulletin

DATE: January 1st, 2006

TO: All Sales Personnel

FROM: Mark Stoner

RE: Product Termination

To all concerned parties,

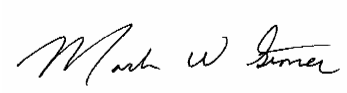
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective January 1st, 2006:

Series	Description	Recommended Replacement
EB13C8	3.3V 5 x 7mm SMD Oscillator	EC26

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 April 1st, 2006, with delivery to conclude by July 1st 2006.

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
Director of Marketing
Ecliptek Corporation

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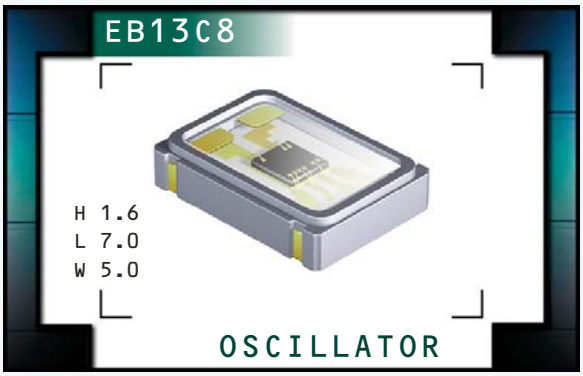
EB13C8 Series

- RoHS Compliant (Pb-Free)
- Low Jitter
- Ceramic SMD package
- 3.3V supply voltage
- LVHCMOS
- Stability to 20ppm
- Standby Function
- Available in tube or tape and reel



OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range	19.440MHz to 125.000MHz and 125.009MHz, 125.009375MHz, 125.010MHz, 127MHz, 128MHz, 130MHz, 132MHz, 133MHz, 133.333MHz, 137.472MHz, 142.850MHz, 150MHz, 155.520MHz and 156.250MHz	
Operating Temperature Range		0°C to 70°C
	Not available with ±20ppm option > 106.250MHz	-40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V_{DD})		3.3V_{DC} ±10%
Input Current	19.440MHz to 35.000MHz	10mA Maximum
	35.001MHz to 70.000MHz	20mA Maximum
	70.001MHz to 125.000MHz	40mA Maximum
	125.001MHz to 156.250MHz	60mA 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	±100ppm, ±50ppm, ±25ppm or ±20ppm Maximum
Output Voltage Logic High (V_{OH})		90% of V_{DD} Min. I_{OH}= -8mA
Output Voltage Logic Low (V_{OL})		10% of V_{DD} Max. I_{OL}= +8mA
Rise / Fall Time	20% to 80% of Waveform w/15pF HCMOS Load from 19.440MHz to 35.000MHz	5 nSec Maximum
	20% to 80% of Waveform w/30pF HCMOS Load from 19.440MHz to 35.000MHz	7 nSec Maximum
	20% to 80% of Waveform w/HCMOS Load from 35.001MHz to 50.000MHz	5 nSec Maximum
	20% to 80% of Waveform w/HCMOS Load from 50.001MHz to 80.000MHz	4 nSec Maximum
	20% to 80% of Waveform w/HCMOS Load from 80.001MHz to 125.000MHz	2 nSec Maximum
	20% to 80% of Waveform w/HCMOS Load from 125.009MHz to 156.250MHz	1 nSec Maximum
Duty Cycle	at 50% of Waveform	50 ±10(%)
	at 50% of Waveform ≤ 125.000MHz	50 ±5(%)
	at 50% of waveform, at 25°C, at 3.3Vdc > 125.000MHz	50 ±5(%)
Load Drive Capability	≤ 35.000MHz	30pF HCMOS Load Maximum
	> 35.001MHz	15pF HCMOS Load Maximum
Tri-State Input Voltage	No Connection	Enables Output
	V_{IH}:≥70% of V_{DD}	Enables Output
	V_{IL}:≤30% of V_{DD}	Disables Output: High Impedance
Standby Current	Disabled Output: High Impedance	10µA Maximum
Start Up Time		10 mSec Maximum
RMS Phase Jitter	19.440MHz to 40.000MHz, F_J = 12kHz to 20MHz	5 pSec Maximum
	40.001MHz to 70.000MHz, F_J = 12kHz to 20MHz	3 pSec Maximum
	70.001MHz to 156.250MHz, F_J = 12kHz to 20MHz	1 pSec Maximum

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	EB13C8	CERAMIC	3.3V	OS2H	04/05

PART NUMBERING GUIDE

EB13C8 F 2 H - 40.000M TR

FREQUENCY TOLERANCE / STABILITY
C=±100ppm Maximum over 0°C to +70°C
D=±50ppm Maximum over 0°C to +70°C
E=±25ppm Maximum over 0°C to +70°C
F=±20ppm Maximum over 0°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
K=±20ppm Maximum over -40°C to +85°C

DUTY CYCLE
1=50 ±10(%)
2=50 ±5(%)

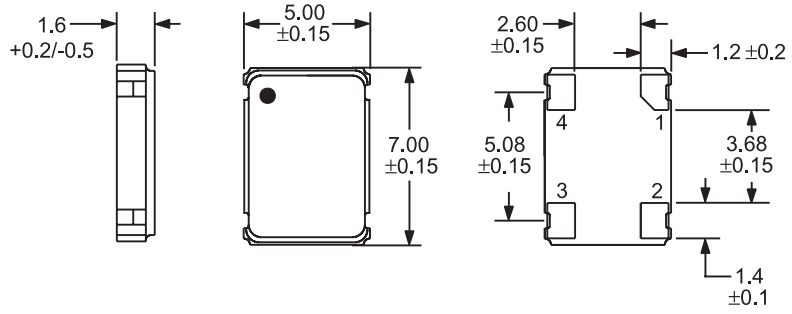
FREQUENCY

OUTPUT CONTROL FUNCTION
H=Tri-State

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

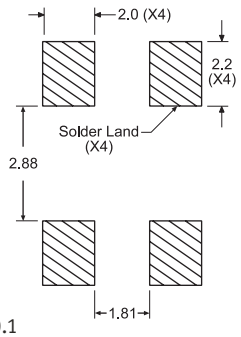
OBSOLETE

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS



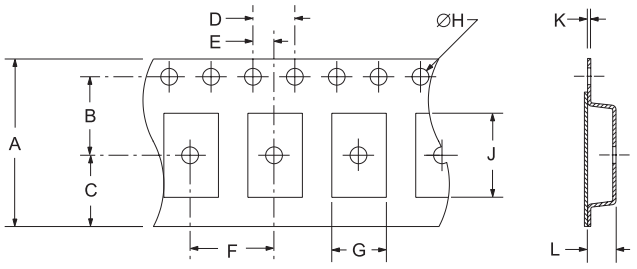
Pin 1: Tri-State
Pin 2: Case Ground
Pin 3: Output
Pin 4: Supply Voltage

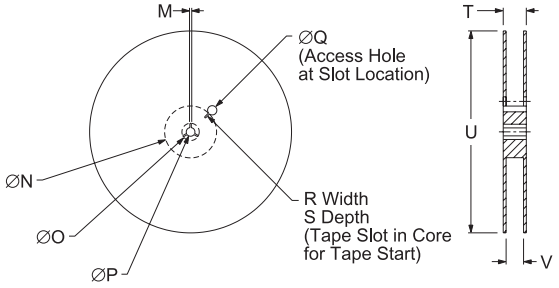
SUGGESTED SOLDER PAD LAYOUT
ALL DIMENSIONS IN MILLIMETERS



Tolerances = ±0.1

TAPE AND REEL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS





TAPE	A	B	C	D	E
	16+.3-.1	7.5±.1	6.75±.1	4±.1	2±.1
F	G	H	J	K	L
8±.1	B0*	1.5 +.1-0	A0*	.3 ±.05	K0*

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	22.4 MAX	360 MAX	16.4+2-0	1,000

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic	Specification
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-202, Method 213, Condition C
Vibration	MIL-STD-883, Method 2007, Condition A
Solderability	MIL-STD-883, Method 2002
Temperature Cycling	MIL-STD-883, Method 1010
Resistance to Soldering Heat	MIL-STD-202, Method 210
Resistance to Solvents	MIL-STD-202, Method 215

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: XX.XXX M
- Frequency in MHz (5 Digits Maximum + Decimal)

Line 3: XX Y ZZ
- Week of Year
- Last Digit of Year
- Ecliptek Manufacturing Identifier

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV - DATE
ECLIPTEK CORP.	OSCILLATOR	EB13C8	CERAMIC	3.3V	OS2H	04/05