

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

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Ecliptek Corporation

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 Rang	je	19.440MHz to 125.000MHz and 125.009MHz, 125.009375MHz, 125.010MHz, 127MHz, 128MHz, 130MHz, 132MHz,						
		133MHz, 133.333MHz, 137.472	MHz, 142.850MHz, 150MH	lz, 155.520MHz and 156.				
Operating Temp	oerature Range				0°C to 70°C			
		Not available with ±20ppm opt	ion > 106.250MHz		-40°C to 85°C			
Storage Temper					-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 Toler	rance / Stability	Inclusive of all conditions: Calibration Tolerance at 25°C,			±100ppm, ±50ppm, ±25ppm or			
		Frequency Stability over the Op	erating Temperature Rang	e,	±20ppm Maximum			
		Supply Voltage Change, Output	Load Change, First Year A	ging				
		at 25°C, Shock, and Vibration						
Output Voltage	Logic High (V _{OH})				90% of V_{DD} Min. I_{OH} = -8n	ıΑ		
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/HC	1 nSec Maximum					
Duty Cycle		at 50% of Waveform			50 ±10(%)			
		at 50% of Waveform ≤ 125.000	MHz		50 ±5(%)			
		at 50% of waveform, at 25°C, a	t 3.3Vdc > 125.000MHz		50 ±5(%)			
Load Drive Capa	ability	≤35.000MHz			30pF HCMOS Load Maximum			
		> 35.001MHz			15pF HCMOS Load Maxim	um		
Tri-State Input	Voltage	No Connection			Enables Output			
		V_{TH} : \geq 70% of V_{DD}			Enables Output			
		V_{IL} : \leq 30% of V_{DD}			Disables Output: High Impe	dance		
Standby Curren	t	Disabled Output: High Impedance			10µA Maximum			
Start Up Time		, , ,			10 mSec Maximum			
RMS Phase Jitter		19.440MHz to 40.000MHz, F ₁ =	5 pSec Maximum					
		40.001MHz to 70.000MHz, F ₁ = 12kHz to 20MHz			3 pSec Maximum			
		70.001MHz to 156.250MHz, F ₁ = 12kHz to 20MHz			1 pSec Maximum			
					<u>'</u>			
MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV = DATE		
ECLIPTEK CORP.	OSCILLATOR	EB13C8	CERAMIC	3.3V	0S2H	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

PACKAGING OPTIONS

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

FREQUENCY

OUTPUT CONTROL FUNCTION

H=Tri-State

DUTY CYCLE

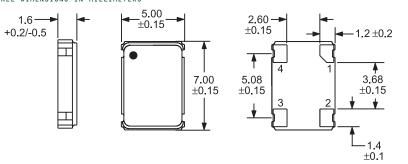
 $1=50\pm10(\%)$

2=50 ±5(%)

BSOLETE

MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS

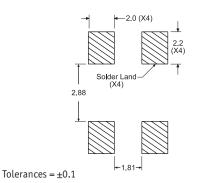


TAPE AND REEL DIMENSIONS

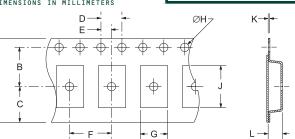
Pin 1: Tri-State Pin 2: Case Ground Pin 3: Output Pin 4: Supply Voltage

SUGGESTED SOLDER PAD LAYOUT

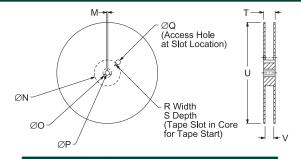
ALL DIMENSIONS IN MILLIMETERS



ALL DIMENSIONS IN MILLIMETERS



TAPE	Α	В	С	D	E
	16+.31	7.5±.1	6.75±.1	4 ±.1	2±.1
F	G	Н	J	K	L
8±.1	B0*	1.5 +.1-0	A0*	.3 ±.05	K0*



	REEL	M	N	0	P	Q
		1.5 MIN	50 MIN	20.2 MIN	13±.2	40 MIN
	R	S	T	U	٧	QTY/REEL
I	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

MIL-STD-883, Method 1014, Condition A MIL-STD-883, Method 1014, Condition C Fine Leak Test Gross Leak Test MIL-STD-202, Method 213, Condition C Mechanical Shock MIL-STD-883, Method 2007, Condition A Vibration MIL-STD-883, Method 2002 Solderability

Temperature Cycling MIL-STD-883, Method 1010 MIL-STD-202, Method 210 Resistance to Soldering Heat 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 PACKAGE SERIES VOLTAGE CLASS REV - DATE ECLIPTEK CORP. OSCILLATOR EB13C8 CERAMIC 04/05 3.3V 0S2H