

Marketing Bulletin

DATE: August 25, 2005
TO: All Sales Personnel
FROM: Mark Stoner
RE: Product Termination

To all concerned parties,

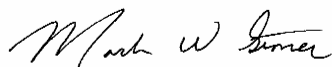
This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective August 25th, 2005:

Series	Description	Recommended Replacement
E11J1	5V 4 pad SMD LVPECL Oscillator	E13C7
E13J1	3.3V 4 pad SMD LVPECL Oscillator	E13C7

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 November 25th, 2005, with delivery to conclude by February 25th 2006.

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

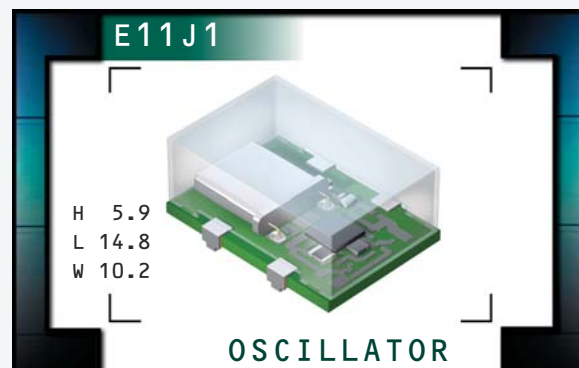
Best Regards,



Mark W. Stoner
Director of Marketing
Ecliptek Corporation

E11J1 Series

- PECL Output Oscillators
- 5.0V supply voltage
- 4 pad PCB SMD package with J-leads
- Stability to 20ppm
- Output Enable/Disable available
- Complementary Output available
- Available on Tape and Reel



NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range		19.440MHz to 250.000MHz
Operating Temperature Range		0°C to 70°C
Available at Frequencies \leq 212.500MHz		-40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V_{CC})		5.0V _{DC} \pm 5%
Input Current		100mA Maximum
Logic Type		100KH
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, Aging, Shock, and Vibration
		\pm 100ppm, \pm 50ppm, \pm 25ppm, or \pm 20ppm Maximum
Output Voltage Logic High (V_{OH})		V_{CC} -1.025V _{DC} Minimum
Output Voltage Logic Low (V_{OL})		V_{CC} -1.620V _{DC} Maximum
Rise Time / Fall Time		20% to 80% of waveform
		2 nSeconds Maximum
Duty Cycle		at 50% of waveform
		50 \pm 10(%)
		50 \pm 5(%)
Load Drive Capability		50 Ohms into V_{CC} -2.0V _{DC}
Logic Control / Additional Output		No Connect, Enable/Disable, or Complementary Output
Enable/Disable Input Voltage		V_{IL} of V_{CC} -1.475V _{DC} Maximum
		No Connection
		V_{IH} of V_{CC} -1.165V _{DC} Minimum
		Enables Output
		Enables Output
		Disables Output: Logic Low
Start Up Time		10 mSeconds Maximum
RMS Phase Jitter		FJ = 12kHz to 20MHz
		1 pSec Maximum

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	E11J1	4-PCB-J	5.0V	OS71	01/03

PART NUMBERING GUIDE

E11J1 F 2 C - 155.520M TR**FREQUENCY TOLERANCE & STABILITY/
OPERATING TEMPERATURE RANGE**

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

DUTY CYCLE

1=50% ±10%, 2=50% ±5%

AVAILABLE OPTIONS

Blank=Tubes

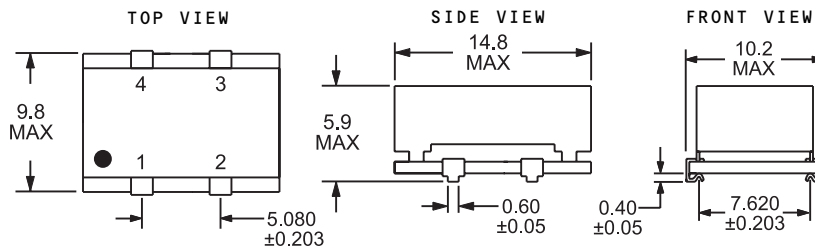
TR=Tape and Reel (Standard)

FREQUENCY**LOGIC CONTROL/ADDITIONAL OUTPUT**

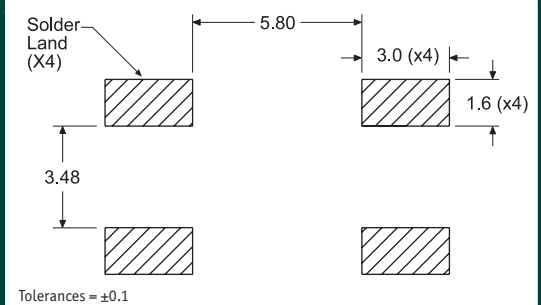
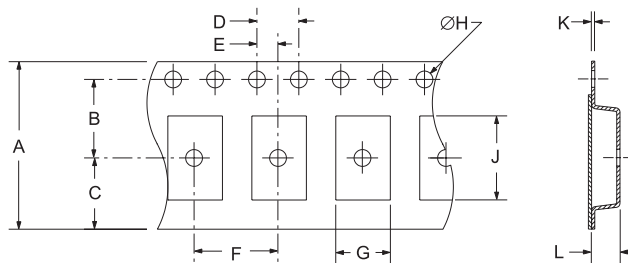
A=No Connect

B=Enable/Disable

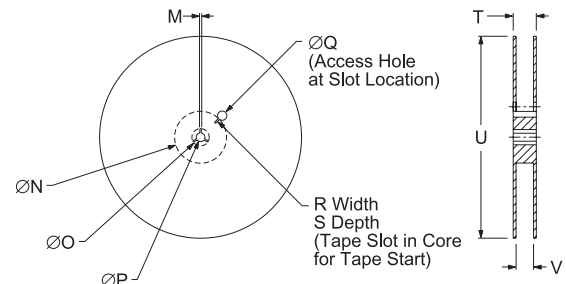
C=Complementary Output

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS

Pin 1: Complementary Output, No Connect, or Enable/Disable
 Pin 2: Case Ground Pin 3: Output Pin 4: Supply Voltage

SUGGESTED SOLDER PAD LAYOUT
ALL DIMENSIONS IN MILLIMETERS**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 ±.1	B0*	1.5 ±.1-0	A0*	.4 ±.05



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

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONSCharacteristic

Fine Leak Test
 Gross Leak Test
 Mechanical Shock
 Vibration
 Solderability
 Temperature Cycling
 Resistance to Soldering Heat
 Resistance to Solvents

Specification

MIL-STD-883, Method 1014, Condition A
 MIL-STD-883, Method 1014, Condition C
 MIL-STD-202, Method 213, Condition C
 MIL-STD-883, Method 2007, Condition A
 MIL-STD-883, Method 2002
 MIL-STD-883, Method 1010
 MIL-STD-202, Method 210
 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

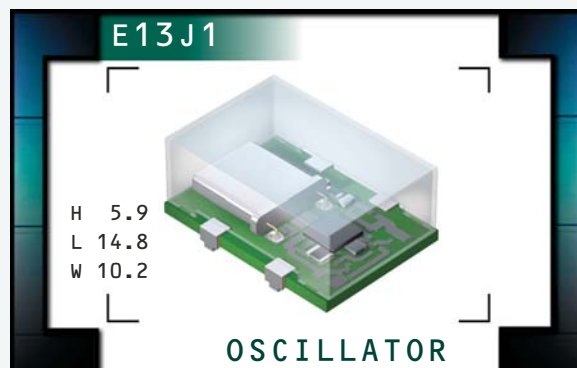
Ecliptek Manufacturing Identifier

OBSOLETE

MANUFACTURER ECLIPTEK CORP.	PACKAGE OSCILLATOR	PART NUMBER E11J1	MARKING 4-PCB-J	VOLTAGE 5.0V	CLASS OS71	REV. DATE 01/03
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E13J1 Series

- PECL Output Oscillators
- 3.3V supply voltage
- 4 pad PCB SMD package with J-leads
- Stability to 20ppm
- Output Enable/Disable available
- Complementary Output available
- Available on Tape and Reel



NOTES

OBSOLETE

ELECTRICAL SPECIFICATIONS

Frequency Range		19.440MHz to 250.000MHz
Operating Temperature Range		0°C to 70°C
Available at Frequencies \leq 212.500MHz		-40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage (V_{CC})		3.3V _{DC} \pm 5%
Input Current		75mA Maximum
Logic Type		100KH
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, Aging, Shock, and Vibration
		\pm 100ppm, \pm 50ppm, \pm 25ppm, or \pm 20ppm Maximum
Output Voltage Logic High (V_{OH})		V_{CC} -1.025V _{DC} Minimum
Output Voltage Logic Low (V_{OL})		V_{CC} -1.620V _{DC} Maximum
Rise Time / Fall Time		20% to 80% of waveform
		2 nSeconds Maximum
Duty Cycle		at 50% of waveform
		50 \pm 10(%)
		50 \pm 5(%)
Load Drive Capability		50 Ohms into V_{CC} -2.0V _{DC}
Logic Control / Additional Output		No Connect, Enable/Disable, or Complementary Output
Enable/Disable Input Voltage		V_{IL} of V_{CC} -1.475V _{DC} Maximum
		No Connection
		Enables Output
		Enables Output
		Disable Output: Logic Low
Start Up Time		10 mSeconds Maximum
RMS Phase Jitter		FJ = 12kHz to 20MHz
		1 pSec Maximum

MANUFACTURER ECLIPTEK CORP.	CATEGORY OSCILLATOR	SERIES E13J1	PACKAGE 4-PCB-J	VOLTAGE 3.3V	CLASS 0569	REV. DATE 01/03
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PART NUMBERING GUIDE

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OPERATING TEMPERATURE RANGE**

C=±100ppm Maximum over 0°C to +70°C

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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

DUTY CYCLE

1=50% ±10%, 2=50% ±5%

AVAILABLE OPTIONS

Blank=Tubes

TR=Tape and Reel (Standard)

FREQUENCY**LOGIC CONTROL/ADDITIONAL OUTPUT**

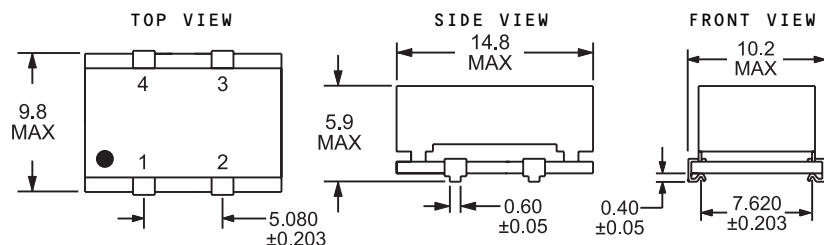
A=No Connect

B=Enable/Disable

C=Complementary Output

MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS

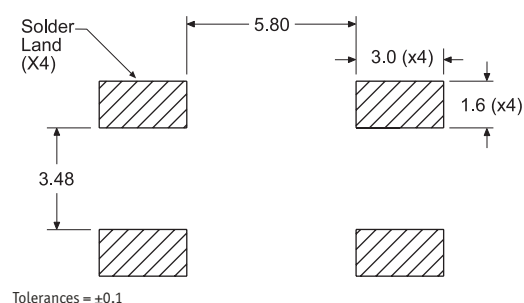


Pin 1: Complementary Output, No Connect, or Enable/Disable

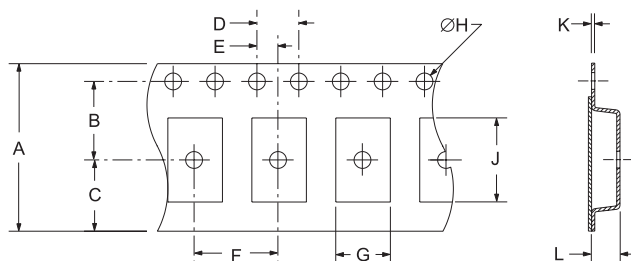
Pin 2: Case Ground Pin 3: Output Pin 4: Supply Voltage

SUGGESTED SOLDER PAD LAYOUT

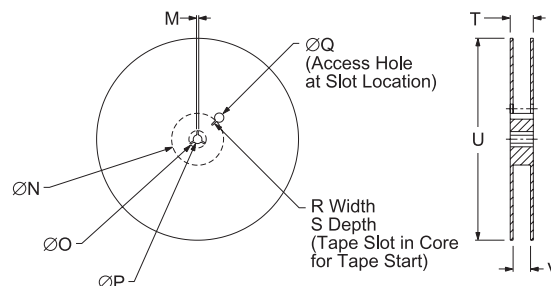
ALL DIMENSIONS IN MILLIMETERS

**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 ±1	B0*	1.5 ±1-0	A0*	.4 ±.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	30.4 MAX	360 MAX	24.4-2-0
					1000

*Compliant to EIA 481A

ENVIRONMENTAL/MECHANICAL SPECIFICATIONSCharacteristicSpecification

Fine Leak Test
Gross Leak Test
Mechanical Shock
Vibration
Solderability
Temperature Cycling
Resistance to Soldering Heat
Resistance to Solvents

MIL-STD-883, Method 1014, Condition A
MIL-STD-883, Method 1014, Condition C
MIL-STD-202, Method 213, Condition C
MIL-STD-883, Method 2007, Condition A
MIL-STD-883, Method 2002
MIL-STD-883, Method 1010
MIL-STD-202, Method 210
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

Eclipse Manufacturing Identifier

OBSOLETE

M	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	4-PCB-J	3.3V	OS69	01/03