

Marketing Bulletin

DATE: February 17th, 2009
TO: All Sales Personnel
FROM: Bob Lostaunau
RE: Product Termination

To all concerned parties,

This bulletin is to notify all customers of the discontinuation of the following Ecliptek series effective February 17th, 2009:

Series	Description	Recommended Replacement
E13D8	RoHS Compliant (Pb-free) 6-Pad 5 x 7mm Ceramic SMD 3.3V LVPECL Oscillator	E13C7
EL13D8	RoHS Compliant (Pb-free) 6-Pad 5 x 7mm Ceramic SMD 3.3V LVDS Oscillator	EL13C7
E15D8	RoHS Compliant (Pb-free) 6-Pad 5 x 7mm Ceramic SMD 2.5V LVPECL Oscillator	E15C7
EL15D8	RoHS Compliant (Pb-free) 6-Pad 5 x 7mm Ceramic SMD 2.5V LVDS Oscillator	EL15C7

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 June 1st, 2009, with delivery to conclude by September 30th, 2009.

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

Best Regards,

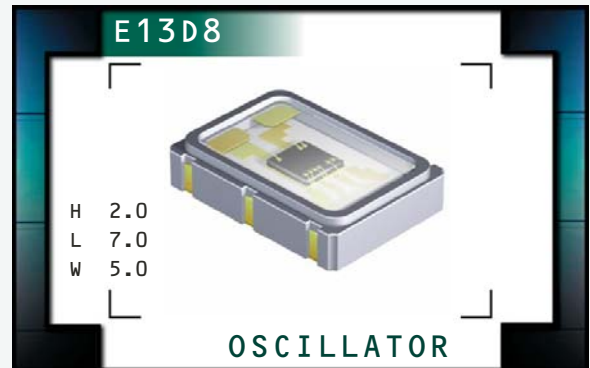
Bob Lostaunau
Quality Assurance Technician
Ecliptek Corporation

E13D8 Series



ECLIPTEK[®]
CORPORATION

- RoHS Compliant (Pb-Free)
- LVPECL Output Oscillators
- 3.3V Supply Voltage
- Ceramic 6-pad SMD Package
- Stability to ± 25 ppm
- Tri-State Output
- Complementary Output
- Available on Tape and Reel
- Wide Range of Available Frequencies



OBSOLETE

ELECTRICAL SPECIFICATIONS

Nominal Frequency	75MHz, 77.76MHz, 80MHz, 100MHz, 106.25MHz, 125MHz, 150MHz, 155.52MHz, 156.25MHz, 159.375MHz, 187.5MHz, 212.5MHz, 250MHz, 311.04MHz, 312.5MHz
Operating Temperature Range	0°C to +70°C, or -40°C to +85°C
Storage Temperature Range	-55°C to 125°C
Supply Voltage (V_{CC})	3.3V _{DC} $\pm 5\%$
Input Current	With Load 75mA 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, 1st Year Aging at 25°C, Shock, and Vibration ± 50 ppm Maximum, or ± 25 ppm Maximum
Output Voltage Logic High (V_{OH})	$V_{CC} - 1.4V_{DC}$ Minimum, $V_{CC} - 1.2V_{DC}$ Typical, $V_{CC} - 0.9V_{DC}$ Maximum
Output Voltage Logic Low (V_{OL})	$V_{CC} - 1.7V_{DC}$ Minimum, $V_{CC} - 1.85V_{DC}$ Typical, $V_{CC} - 2.0V_{DC}$ Maximum
Peak to Peak Output Voltage Swing	600mVdc Minimum, 800mVdc Typical, 1000mVdc Maximum
Rise Time / Fall Time	20% to 80% of waveform 300pSec Typical, 600pSec Maximum
Duty Cycle	at 50% of waveform 50 ± 5 (%)
Load Drive Capability	50 Ohms into $V_{CC} - 2.0V_{DC}$
Logic Control / Additional Output	Tri-State and Complementary Output
Tri-State Input Voltage	V_{IH} of 70% of V_{CC} Minimum No Connection V_{IL} of 30% of V_{CC} Maximum Enables Output Enables Output Disables Output: High Impedance
Standby Current	Disabled Output, High Impedance, Without Load 600 μ A Maximum
Start Up Time	10 mSeconds Maximum
RMS Phase Jitter	FJ = 12kHz to 20MHz 0.7pSec Typical, 1 pSec Maximum
Typical Phase Noise	Fo=156.250MHz -60dBc/Hz at 10Hz Offset -90dBc/Hz at 100Hz Offset -115dBc/Hz at 1kHz Offset -129dBc/Hz at 10kHz Offset -130dBc/Hz at 100kHz Offset -131dBc/Hz at 1MHz Offset -148dBc/Hz at 10MHz Offset

MANUFACTURER
ECLIPTEK CORP.

CATEGORY
OSCILLATOR

SERIES
E13D8

PACKAGE
CERAMIC

VOLTAGE
3.3V

CLASS
OS4N

REV. DATE
10/07

PART NUMBERING GUIDE

E13D8 D 2 F - 155.520M TR

FREQUENCY TOLERANCE & STABILITY/
OPERATING TEMPERATURE RANGE

C=±25ppm Maximum over 0°C to +70°C
 D=±50ppm Maximum over 0°C to +70°C
 G=±25ppm Maximum over -40°C to +85°C
 H=±50ppm Maximum over -40°C to +85°C

AVAILABLE OPTIONS

Blank= Tubes
 TR= Tape and Reel (Standard)

FREQUENCY

LOGIC CONTROL/ADDITIONAL OUTPUT

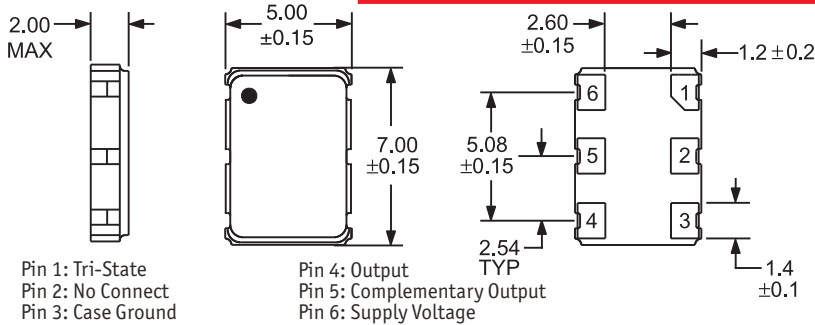
F= Tri-State and Complementary Output

OBSOLETE

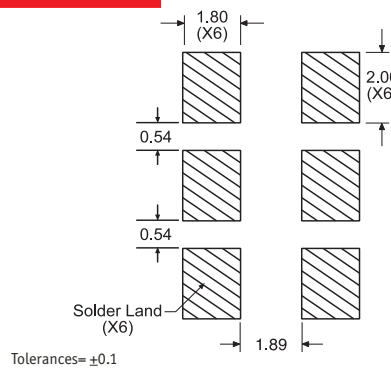
PERFORMANCE CHARACTERISTICS

±0.5%

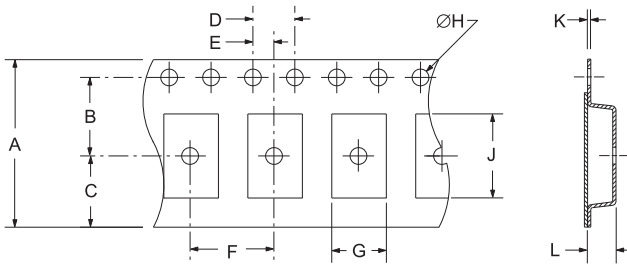
MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS



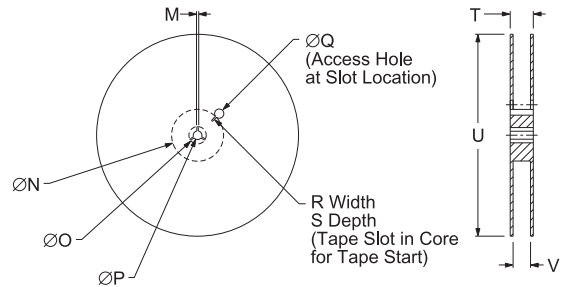
SUGGESTED SOLDER PAD LAYOUT
IN MILLIMETERS



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	E13D8	CERAMIC	3.3V	OS4N	10/07