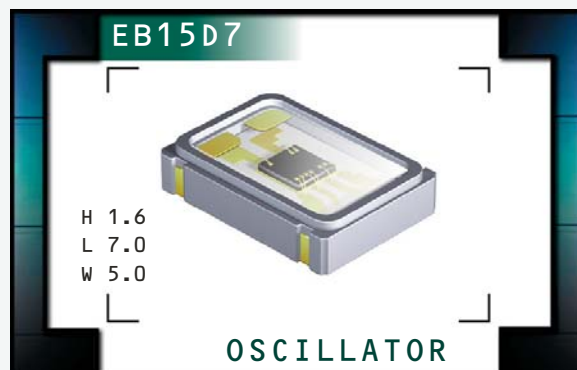


EB15D7 Series

- RoHS Compliant (Pb-Free)
- Low Jitter
- Ceramic SMD package
- 2.5V supply voltage
- LVHCMOS
- Stability to $\pm 50\text{ppm}$
- Standby Function
- Available in tube or tape and reel



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ECLIPTEK
CORPORATION



NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range	150.000MHz, 155.520MHz, 156.250MHz, 159.380MHz, 187.500MHz, 212.500MHz, and 250.000MHz	
Operating Temperature Range	0°C to 70°C	
Storage Temperature Range	-55°C to 125°C	
Supply Voltage (V_{DD})	2.5V _{DC} $\pm 5\%$	
Input Current	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, First Year Aging at 25°C, Shock, and Vibration	$\pm 50\text{ppm}$ Maximum
Output Voltage Logic High (V_{OH})	90% of V_{DD} Min. $I_{OH} = -8\text{mA}$	
Output Voltage Logic Low (V_{OL})	10% of V_{DD} Max. $I_{OL} = +8\text{mA}$	
Rise / Fall Time	20% to 80% of Waveform	400 pSec Typical; 1nSec Maximum
Duty Cycle	at 50% of Waveform	50 $\pm 5\%$
Load Drive Capability	15pF HCMOS Load Maximum	
Tri-State Input Voltage	No Connection (Internal Pull-Up Resistor)	Enables Output
	$V_{IH} \geq 70\%$ of V_{DD}	Enables Output
	$V_{IL} \leq 30\%$ of V_{DD}	Disables Output: High Impedance
Standby Current	Disabled Output: High Impedance	600 μA Maximum
Start Up Time	10mSec Maximum	
RMS Phase Jitter	$F_j = 12\text{kHz}$ to 20MHz	1pSec Maximum

MANUFACTURER ECLIPTEK CORP.	CATEGORY OSCILLATOR	SERIES EB15D7	PACKAGE CERAMIC	VOLTAGE 2.5V	CLASS OS4M	REV. DATE 07/06
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PART NUMBERING GUIDE

EB15D7 D 2 H - 150.000M TR**FREQUENCY TOLERANCE / STABILITY**

D=±50ppm Maximum over 0°C to +70°C

PACKAGING OPTIONS

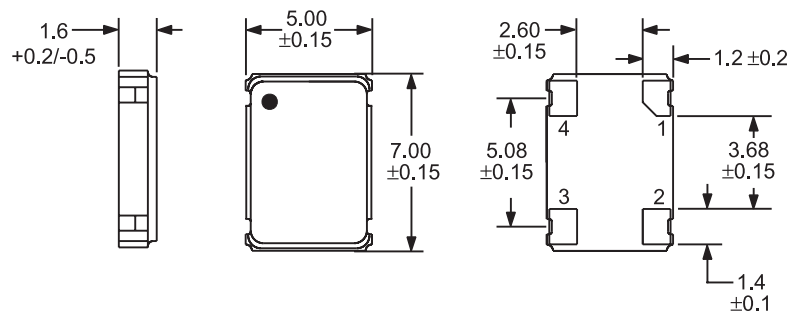
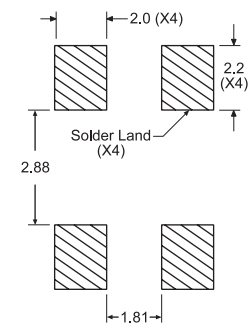
Blank=Bulk, TR=Tape and Reel (Standard)

FREQUENCY**DUTY CYCLE**

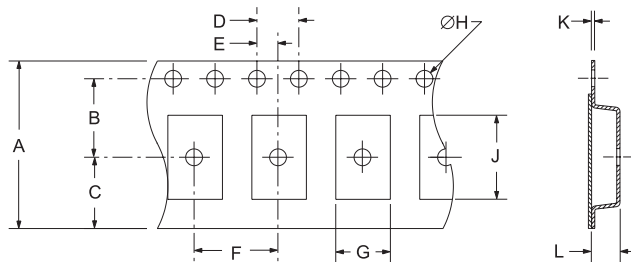
2=50 ±5(%)

OUTPUT CONTROL FUNCTION

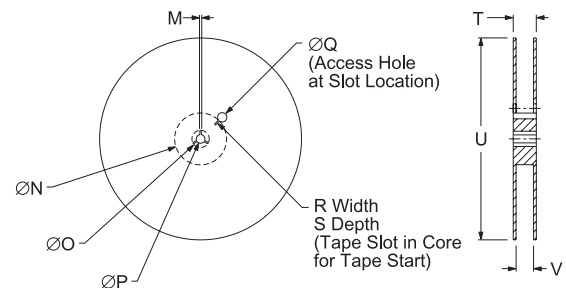
H=Tri-State

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERSPin 1: Tri-State
Pin 2: Case GroundPin 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±0.05	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**

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

MANUFACTURER
ECLIPTEK CORP.CATEGORY
OSCILLATORSERIES
EB15D7PACKAGE
CERAMICVOLTAGE
2.5VCLASS
OS4MREV. DATE
07/06