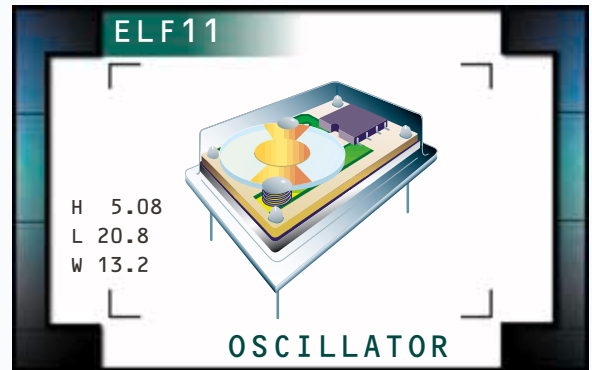


ELF11 Series

- 32.768kHz Oscillator
- 5.0V supply voltage
- HCMOS/TTL output
- 14 pin DIP package
- Low input current
- Custom lead length, gull wing options available



NOTES

ELECTRICAL SPECIFICATIONS

Frequency		32.768kHz
Storage Temperature Range		-30°C to 80°C
Aging (at 25°C)		±5ppm / year Maximum
Operating Temperature Range		0°C to 70°C
Supply Voltage (V_{DD})		5.0V _{DC} ±5%
Load Drive Capability		1TTL Load or 15pF HCMOS Load
Input Current	at 5.5V _{DC}	200µA Maximum
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	±100ppm or ±50ppm Maximum
Output Voltage Logic High (V_{OH})	w/TTL Load w/HCMOS Load	2.4V _{DC} Minimum V _{DD} -0.5V _{DC} Minimum
Output Voltage Logic Low (V_{OL})	w/TTL Load w/HCMOS Load	0.4V _{DC} Maximum 0.5V _{DC} Maximum
Duty Cycle	at 1.4V _{DC} w/TTL Load or w/HCMOS Load	50 ±10(%) (Standard) or 50 ±5(%) (Optional)
Rise Time / Fall Time	0.4V _{DC} to 2.4V _{DC} w/TTL Load; 20% to 80% of Waveform w/HCMOS Load	1 µSecond Maximum

MANUFACTURER ECLIPTEK CORP.	CATEGORY OSCILLATOR	SERIES ELF11	PACKAGE 14 pin DIP	VOLTAGE 5.0V	CLASS OS07	REV. DATE 09/00
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PART NUMBERING GUIDE

ELF11 00 T - 32.768K - G

FREQUENCY TOLERANCE / STABILITY

00=±100ppm Maximum (Standard)
45=±50ppm Maximum

DUTY CYCLE

Blank=50 ±10(%) (Standard)
T=50 ±5(%)

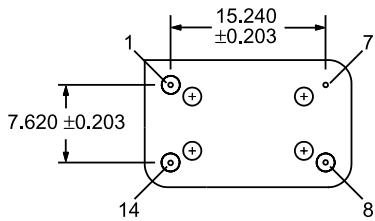
AVAILABLE OPTIONS

Blank=None (Standard)
CLXX=Custom Lead Length (See Page 123)
G=Full Size Gull Wing (See Page 122)

FREQUENCY

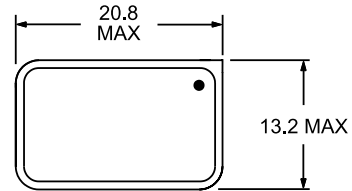
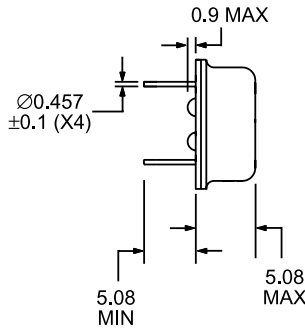
NOTES

MECHANICAL DIMENSIONS
ALL DIMENSIONS IN MILLIMETERS



Pin 1: No Connect
Pin 7: Case Ground

Pin 8: Output
Pin 14: Supply Voltage



ENVIRONMENTAL/MECHANICAL SPECIFICATIONS

Characteristic	Specification
Seal Integrity	Bubble test in Perfluorocarbon at +125°C ±5°C for 60 seconds minimum.
Solderability	Sn63 Solder dip at +230°C ±5°C for 5 seconds/95% coverage.
Marking Permanency	10 Strokes with brush after 1 minute soak in solvent, 3 times.
Shock	Random drop on hard wooden plate 3 times from a height of 20cm.
Vibration	Frequency with an amplitude of 1.5mm sweeping between 10Hz to 55Hz within 1 minute (approximately) for 2 hours minimum on each axis (X, Y and Z) for a total of 6 hours.

MARKING SPECIFICATIONS

Line 1: ECLIPTEK

Line 2: ELF11

Series Designator

Line 3: 32.768K

Line 4: XX Y ZZ

Week of Year
Last Digit of Year
Ecliptek Manufacturing Identifier

MANUFACTURER ECLIPTEK CORP.	CATEGORY OSCILLATOR	SERIES ELF11	PACKAGE 14 pin DIP	VOLTAGE 5.0V	CLASS OS07	REV. DATE 09/00
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