

# HCMOS/TTL OSCILLATOR

14 Pin DIP Full Size *ELF11* Series 5.0V<sub>DC</sub>



## 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)  
CLXXX=Custom Lead Length (pg. F1)  
G=Full Size Gull Wing (pg. F2)

### FREQUENCY

## ELECTRICAL SPECIFICATIONS

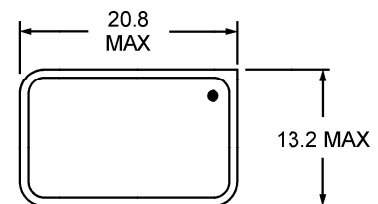
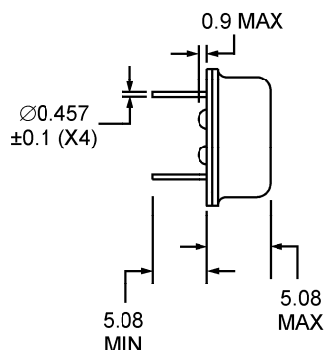
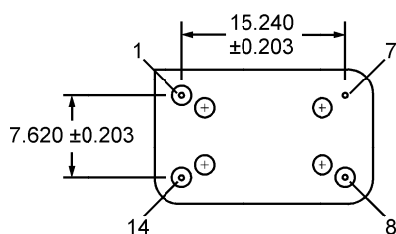
Marking Specifications See pg. G2, Group F

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 <sub>DD</sub> )		5.0V <sub>DC</sub> ±5%
Load Drive Capability		1TTL Load or 15pF CMOS Load
Input Current	at 5.5V <sub>DC</sub>	200µA Maximum
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	±100ppm or ±50ppm Maximum
Output Voltage Logic High (V <sub>OH</sub> )	w/TTL Load	2.4V <sub>DC</sub> Minimum
	w/HCMOS Load	V <sub>DD</sub> - 0.5V <sub>DC</sub> Minimum
Output Voltage Logic Low (V <sub>OL</sub> )	w/TTL Load	0.4V <sub>DC</sub> Maximum
	w/HCMOS Load	0.5V <sub>DC</sub> Maximum
Duty Cycle	at 1.4V <sub>DC</sub> w/TTL Load;	50 ±10% (Standard) or
	at 50% of Waveform w/HCMOS Load	50 ±5% (Optional)
Rise Time / Fall Time	0.4V <sub>DC</sub> to 2.4V <sub>DC</sub> w/TTL Load; 20% to 80% of Waveform w/HCMOS Load	1 µSecond Maximum

## MECHANICAL DIMENSIONS

Environmental / Mechanical Specifications See pg. H1, Group C

Pin 1: No Connect    Pin 8: Output  
Pin 7: Case Ground    Pin 14: Supply Voltage



Dimensions in mm

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Specifications subject to change without notice. • Contact factory for latest revision • 1/99 • (OS07)