E32F1 Series

- PECL Output VCXO
- 3.3V supply voltage
- 14 pin DIP package (4 pin)
- Stability to 20ppm

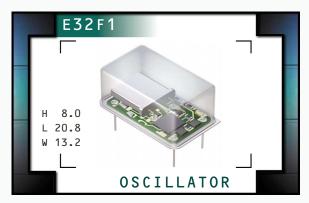
ELECTRICAL SPECIFICATIONS

Modulation Bandwidth

MANUFACTURER ECLIPTEK CORP.

• Custom lead length





NOTES

Frequency Kange		19.440MHz to 180.000MHz
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} ±5%
Input Current		75mA Maximum
Logic Type		100KH
Frequency Tolerance / Stability	Inclusive of Operating Temp Range, Supply Voltage,	±50ppm, ±25ppm, or
	Load, and Aging @25°C over 10 years	±20ppm Maximum
Output Voltage Logic High (V _{OH})		V_{CC} -1.025 V_{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 ±10(%)
		50 ±5(%)
Load Drive Capability		50 Ohms into V_{CC} -2.0 V_{DC}
Start Up Time		10 mSeconds Maximum
RMS Phase Jitter	FJ = 12kHz to 20MHz	1 pSec Maximum
Absolute Pull Range (APR)	Inclusive of Operating Temp Range, Supply Voltage,	±50ppm Minimum
	Load, and Aging @25°C over 10 years	
Linearity		20%, 15%, or 10% Maximum
Control Voltage (V_c): Test Conditions for APR		1.65V _{DC} ±1.35V _{DC}
Control Voltage Range (V _{CR})		0.0V _{DC} to V _{CC}
Center Control Voltage		1.65V _{DC}
Transfer Function		Positive Transfer Characteristic
Input Impedance		50k0hms Typical

SERIES E32F1

CATEGORY OSCILLATOR

14 pin DIP

at -3dB with Control Voltage of $+1.65V_{DC}$

VOLTAGE

3.3V

10kHz Minimum

0S83

11/01

PART NUMBERING GUIDE

E32F1 F 3 A 2 A - 155.520M - CL125 FREQUENCY TOLERANCE & STABILITY/ **AVAILABLE OPTIONS** Blank=None (Standard) **OPERATING TEMPERATURE RANGE** CLXXX=Custom Lead Length (See Page 153) D=±50ppm Maximum over 0°C to +70°C G=Full Size Gull Wing (See Page 152) E=±25ppm Maximum over 0°C to +70°C F=±20ppm Maximum over 0°C to +70°C **FREQUENCY** H=±50ppm Maximum over -40°C to +85°C **DUTY CYCLE** $1=50\pm10(\%), 2=50\pm5(\%)$ 3=±50ppm Minimum **LINEARITY** A=20% B=15%

C=10%

NOTES

