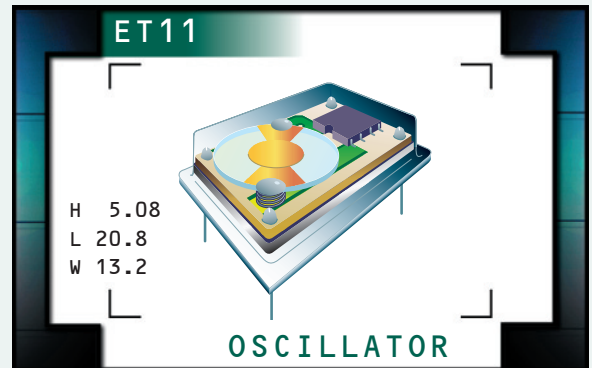


ET11 Series

- True TTL output
- 5.0V supply voltage
- 14 pin DIP package
- Stability to 25ppm
- Custom lead length, gull wing options available



NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range		4.000MHz to 70.000MHz
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})		5.0V _{DC} ±10%
Input Current		70mA Maximum
Frequency Tolerance / Stability		Inclusive of Operating Temperature Range, Supply Voltage, and Load ±100ppm, ±50ppm, or ±25ppm Maximum (0°C to 70° Only)
Output Voltage Logic High (V_{OH})		2.4V _{DC} Minimum
Output Voltage Logic Low (V_{OL})		0.4V _{DC} Maximum
Rise Time / Fall Time	4.000MHz (0.4V _{DC} to 2.4V _{DC})	15 nSeconds Maximum
	4.001MHz to 25.000MHz (0.4V _{DC} to 2.4V _{DC})	10 nSeconds Maximum
	25.001MHz to 70.000MHz (0.4V _{DC} to 2.4V _{DC})	6 nSeconds Maximum
Duty Cycle (at 25°C)	at 1.4V _{DC}	50 ±10(%) (Standard) or 50 ±5(%) (Optional)
Load Drive Capability	4.000MHz to 25.000MHz	10TTL Load Maximum
	25.001MHz to 70.000MHz	5TTL Load Maximum
Aging (at 25°C)		±5ppm / year Maximum
Period Jitter: Absolute		±100pSeconds Maximum
Period Jitter: One Sigma		±25pSeconds Maximum

PART NUMBERING GUIDE

ET11 00 ET T - 64.000M - G

FREQUENCY TOLERANCE / STABILITY

00=±100ppm Maximum (Standard)
45=±50ppm Maximum
25=±25ppm Maximum

OPERATING TEMP. RANGE

Blank=0°C to 70°C (Standard)
ET=-40°C to 85°C

AVAILABLE OPTIONS

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

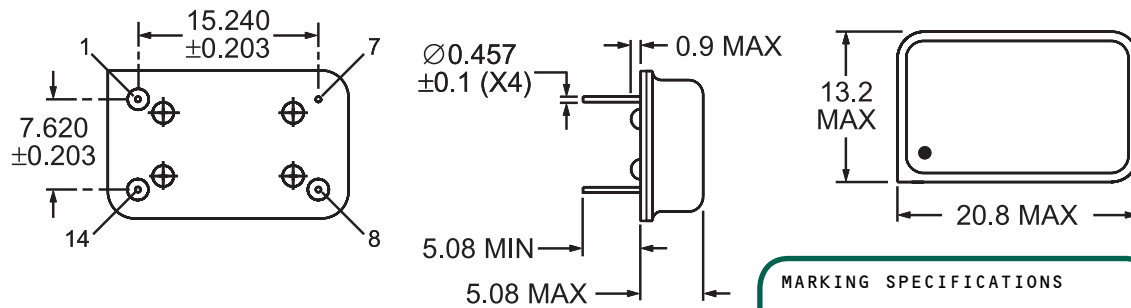
FREQUENCY

DUTY CYCLE

Blank=50 ±10(%) (Standard)
T=50 ±5(%)

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: ET11

Series Designator

Line 3: XX.XXX M

Frequency in MHz
(5 Digits Maximum + Decimal)

Line 4: XX Y ZZ

Week of Year
Last Digit of Year
Ecliptek Manufacturing Identifier

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	ET11	14 pin DIP	5.0V	OS06	06/00