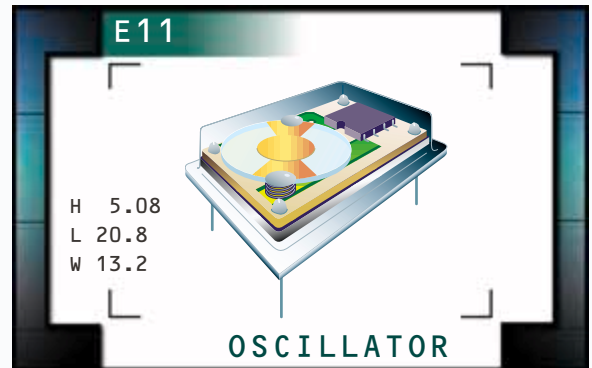


E11 Series

- ECL or PECL Output
- 5.2V supply voltage
- 14 pin DIP package
- Four pin configurations available
- Custom lead length, gull wing options available



NOTES

ELECTRICAL SPECIFICATIONS

Frequency Range		6.000MHz to 155.520MHz
Storage Temperature Range		-55°C to 125°C
Aging (at 25°C)		±5ppm / year Maximum
Input Current		140mA Maximum
Operating Temperature Range	±100ppm or ±50ppm	0°C to 70°C or -40°C to 85°C
	±25ppm	0°C to 70°C (≤125.000MHz)
Supply Voltage (V_{EE})	AA, AB, & AM	-5.2V _{DC} ±5%
	AC (PECL)	+5.2V _{DC} ±5%
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage, and Load	±100ppm, ±50ppm or ±25ppm Maximum
Output Voltage Logic High (V_{OH})	AA, AB, & AM	-1.0V _{DC} Minimum / -0.7V _{DC} Maximum
	AC (PECL)	4.0V _{DC} Minimum / 4.5V _{DC} Maximum
Output Voltage Logic Low (V_{OL})	AA, AB, & AM	-1.95V _{DC} Minimum / -1.6V _{DC} Maximum
	AC (PECL)	3.0V _{DC} Minimum / 3.42V _{DC} Maximum
Duty Cycle	at 50% of Waveform	50 ±10(%)
Rise Time / Fall Time	20% to 80% of Waveform	2 nSeconds Maximum
Load Drive Capability	AA, AB, & AM	50 Ohms into -2.0V _{DC}
	AC (PECL)	50 Ohms into +3.0V _{DC}

PART NUMBERING GUIDE

E11 00 AC ET C - 64.000M - G

FREQUENCY TOLERANCE / STABILITY

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

PIN CONFIGURATION

AA, AB, AC, or AM
Per Table 1

OPERATING TEMP. RANGE

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

AVAILABLE OPTIONS

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

FREQUENCY

PIN 1 CONNECTION

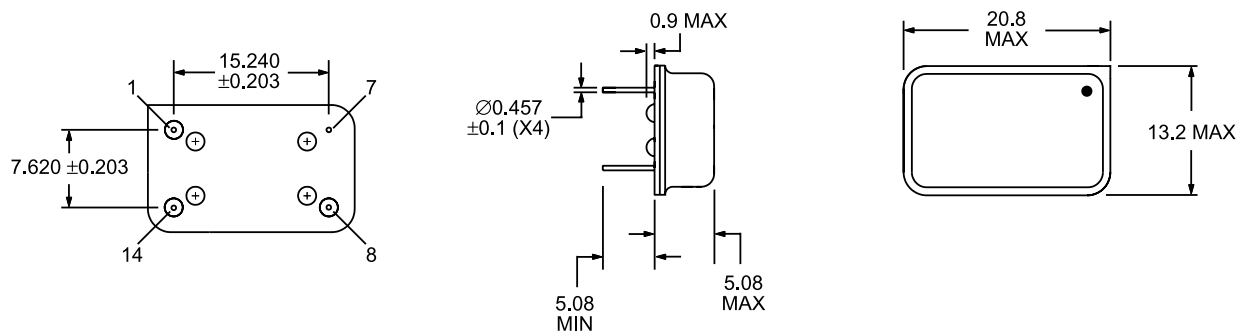
Blank=No Connection (Standard)
C=Complimentary Output

TABLE 1: AVAILABLE PIN CONFIGURATIONS

Pin	AA	AB	AC (PECL)	AM
1	Case Ground	No Connect or Complimentary Output	No Connect or Complimentary Output	No Connect or Complimentary Output
7	-5.2V	-5.2V	Case Ground	Case Ground
8	Output	Output	Output	Output
14	Ground	Case Ground	+5.2V _{DC}	-5.2V _{DC}

MECHANICAL DIMENSIONS

ALL DIMENSIONS IN MILLIMETERS



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: E11 AC C

Pin 1 Connection Code
Blank = No Connect
C = Complimentary Output

Pin Configuration Code
AA, AB, AC, or AM per Table 1
of E11 Series Specification

Line 3: XXX.XXX M

Frequency in MHz (6 Digits Maximum + Decimal)

Line 4: XX Y ZZ

Week of Year
Last Digit of Year
Ecliptek Manufacturing Identifier

Note: Pin 1 shall be designated with a dot

MANUFACTURER	CATEGORY	SERIES	PACKAGE	VOLTAGE	CLASS	REV. DATE
ECLIPTEK CORP.	OSCILLATOR	E11	14 pin DIP	±5.2V	OS03	06/00