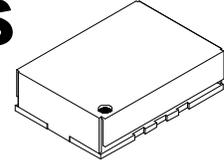




PE1145T LV PECL Series



- 6 Pad Leadless Surface Mount Oscillator
- Differential LV PECL Output
- Enable/ Disable Function
- Alternate Pinouts Compatible with All Major Suppliers Available

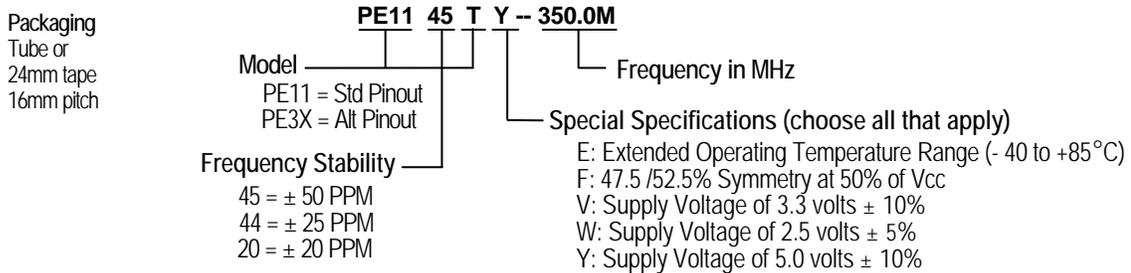
170.00 MHz – 650.00 MHz
Consult factory for higher frequencies

Standard Specifications

Overall Frequency Stability	PE1145T: ± 50 PPM, PE1144T: ± 25 PPM, PE1120T: ± 20 PPM over Operating Temp. Range
Operating Temperature Range	0 to +80°C is standard, but can be extended to -40 to +85°C for certain frequencies
Supply Voltage (Vcc)	3.3 volts ± 10% standard, but 5.0 volts or 2.5 volts also available
Supply Current (Icc)	115 mA typical, 130 mA maximum
Jitter	Consult factory
Output Load	Output must be terminated into 50 ohms to (Vcc - 2.0 V). See Test Circuit 5 and Note 1.
Enable/Disable Option (E/D)	Output enabled when Pin #2 is open or at CMOS Logic "1"; Output disabled when Pin #2 is at CMOS Logic "0".
Output Waveform	Symmetry 45/55% to 55/45% at 50% of Vcc level standard, tighter symmetry available
PECL with Differential Output (see Waveform 2)	Tr & Tf 300 pS max (20 to 80%) Logic "1" Vcc - 1.025 volts minimum Logic "0" Vcc - 1.620 volts maximum

Note 1: In the typical PECL 100K logic output Voh is 2.35 volts and Vol is 1.60 volts at 3.3 Vcc. The center voltage of the PECL is therefore 1.975 volts. If a 50 Ω resistor is placed between the output and Vcc - 2 volts (1.3 volts), the current through the resistor is (1.975 - 1.3) / 50 = 13.5 mA. The same load can be simulated by a resistor of 147 ± 1% ohms to ground (1.975 / 0.0135 = 146.29 ohms). If additional load current is placed on the output, its load current must be subtracted from the 13.5 mA to calculate a new load resistor. Using similar calculations, use 274 ± 1% ohms to ground for 5.0V operation.

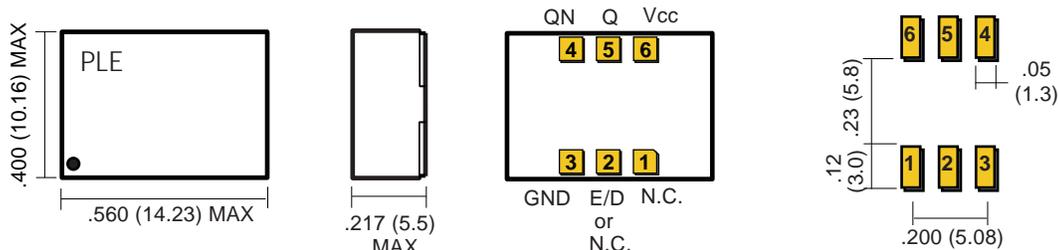
Part Numbering Guide



Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

Mechanical: inches (mm) not to scale Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.



Consult factory for alternate pinout

May 2002