

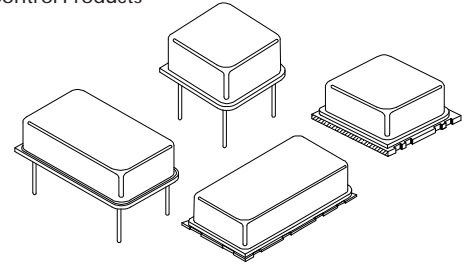


# Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA  
 Manufacturer of High Quality Frequency Control Products

## True TTL Series

- True TTL Output without Enable/Disable
- Lower EMI Due to Lower Ringing Noise (Overshoot/Undershoot)
- P1145 (Full Size) or ST2245 (Half Size) Metal Clock Oscillator
- Available in Thru-Hole or Surface Mount Configuration



**4.000 MHz – 60.000 MHz**

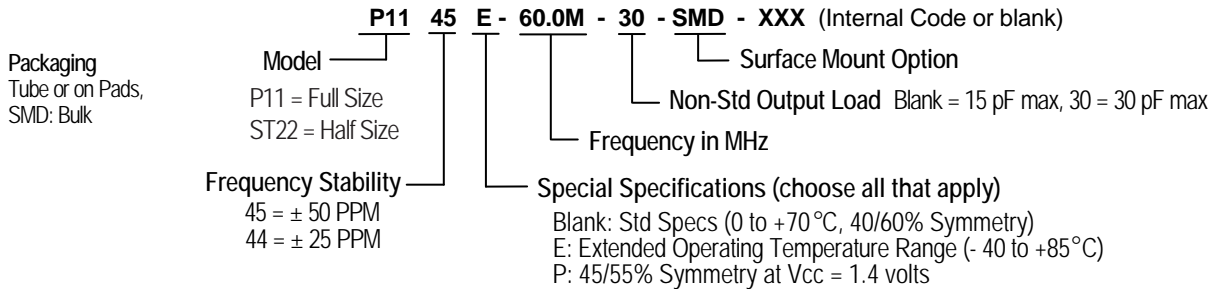
### Standard Specifications

Overall Frequency Stability	± 50 PPM or ± 25 PPM over Operating Temperature Range
Operating Temperature Range	0 to +70°C is standard, but can be extended to -40 to +85°C for certain frequencies
Supply Voltage (Vcc)	5.0 volts ± 10%
Symmetry (Duty Cycle)	40/60 to 60/40% is standard, but 45/55% at Vcc = 1.4 volts is also available (see Waveform 1)
Logic Levels	Logic "1" 2.4 volts MIN; Logic "0" 0.4 volts MAX
Output Load	Can drive up to 10 TTL loads + 15pF (typ. 1 ASIC), see Test Circuit 4 (consult factory for heavier loads)
Ringing Noise	Depends on frequency and output load. See EMI application note

Frequency Range (MHz)	Supply Current Icc (mA)		Rise and Fall Time Tr & Tf (nS)	
	Typical	Maximum	Typical	Maximum
4.000 – 7.999	23.0	28.0	4.0	5.0
8.000 – 15.999	24.0	28.0	3.0	4.0
16.000 – 21.999	24.0	28.0	2.5	3.5
22.000 – 60.000	27.0	32.0	2.0	3.0

### Part Numbering Guide

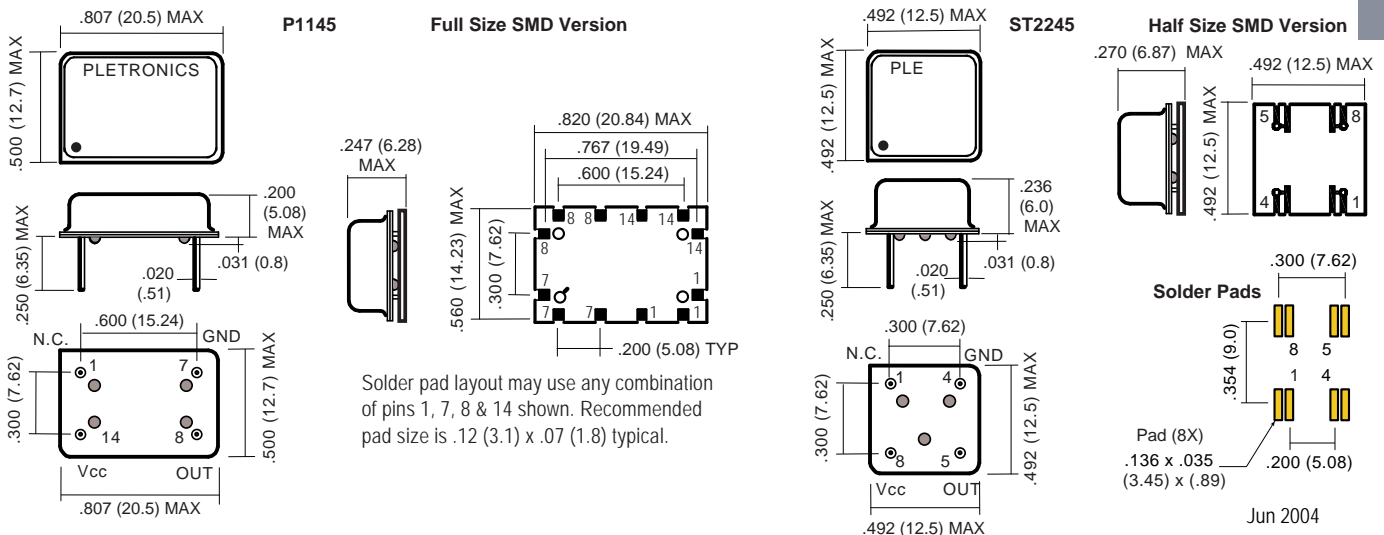
Portions of the part number that appear after the frequency may not be marked on part (C of C provided)



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

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.



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