

Pletronic*i,* Inc.

19013 36th Ave. West • Suite H • Lynnwood, WA 98036, USA

P1145-3S Series

- Full Size (14 Pin DIP) Metal Clock Oscillator
- 0 CMOS with Enable/ Disable
- Lower Ringing Noise Option Available to Reduce EMI
- Available in Thru-Hole or Surface Mount Configuration



Standard Specifications

Overall Frequency Stability Operating Temperature Ran Supply Voltage (Vcc) Symmetry (Duty Cycle) Logic Levels Output Load Ringing Noise Enable/Dicable Option (E/D)	P1145-3S: ge 0 to +70°C 5.0 volts and 40/60 to 60/ Logic "1" Standard loa Depends on Output or and	P1145-3S: ± 50 PPM, P1144-3S: ± 25 PPM, P1120-3S: ± 20 PPM over Operating Temp. Range 0 to +70°C is standard, but can be extended to – 40 to +85°C for certain frequencies 5.0 volts and 3.3 volts available 40/60 to 60/40% is standard, but 45/55% at 50% of Vcc is also available (see Waveform 1) Logic "1" 90% of Vcc MIN; Logic "0" 10% of Vcc MAX Standard load is 15pF maximum, see Test Circuit 3 (consult factory for heavier loads) Depends on frequency and output load. See EMI application note Output conclude when Pin #1 is onen or at Logic "1". Output disabled when Pin #1 is at Logic "0"					
		Pange Supply Current Rise and Fall Time				IFIII#TIS at LOYIC 0.	
Field		e Suppry Current					
	(MHZ)	2) ICC (MA) W/ ISPF IOAd					
		Typical	Maximum	Typical	Maximum		
0.650 - 10.000		6.5	10.0	3.0	4.0		
10.001 - 25.999		15.0	20.0	2.5	3.5		
26.000 - 34.999		18.0	25.0	2.5	3.5		
35.000 - 50.000		25.0	30.0	2.5	3.5		
50.001 - 69.999		32.0	35.0	2.5	3.5		
Part Numbering Guide							
P11 45 - 3S V 60.0M - 30 - SMD							
Packaging Tube or on Pads, SMD: Bulk	ckaging e or on Pads, D: Bulk Model			Surface Mount Option Non-Std Output Load: Blank = 15 pF max, 30 = 30 pF max			
Frequency Stability —			Frequency	y in MHz	50 – 50 pr 50 – 50 pF	max	

50 = 50 pF maxSpecial Specifications (choose all that apply)

- Blank: Std Specs (5.0V ± 10%, 0 to +70°C, 40/60% Sym)
- E: Extended Operating Temperature Range (- 40 to +85°C) N: Lower Ringing Noise

Surface Mount

- S: 45/55% Symmetry at 50% of Vcc
- V: Supply Voltage of 3.3 volts ± 10%

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

 $45 = \pm 50 \text{ PPM}$

 $44 = \pm 25 \text{ PPM}$

 $20 = \pm 20 \text{ PPM}$

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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