Through Hole Clock Oscillator Part Numbering System

D — Internal Code | 11 | C | 20.0000 | N | N | S | G

Package	Frequency Stability	Nominal Frequency [in MHz]	Operating temperature Range	Output symmetry	Output Load	Option (can be blank)
11=HO-11 (DIP14/TTL/5.0V) 12=HO-12 (DIP14/TTL CMOS/5.0V) 13=HO-13 (DIP14/TTL CMOS/5.0V/3-STATE) 14=HO-14 (DIP14/TTL CMOS/1.8V) 15=HO-15 (DIP14/TTL CMOS/3.3V) 16=HO-16 (DIP14/TTL CMOS/3.3V/3-STATE) 17=HO-17 (DIP14/TTL CMOS/1.8V/3-STATE) 18=HO-18 (DIP14/TTL CMOS/2.5V) 19=HO-19 (DIP14/TTL CMOS/2.5V/3-STATE) 21=HO-21 (DIP8/TTL/5.0V) 22=HO-22 (DIP8/TTL CMOS/5.0V) 23=HO-23 (DIP8/TTL CMOS/5.0V/3-STATE) 24=HO-24 (DIP8/TTL CMOS/1.8V) 25=HO-25 (DIP8/TTL CMOS/3.3V) 26=HO-26 (DIP8/TTL CMOS/3.3V/3-STATE) 27=HO-27 (DIP8/TTL CMOS/1.8V/3-STATE) 28=HO-28 (DIP8/TTL CMOS/2.5V) 29=HO-29 (DIP8/TTL CMOS/2.5V/3-STATE)	A=±25ppm B=±50ppm C=±100ppm T=±10ppm G=±20ppm F=±15ppm	Please enter the nominal frequency (7 digitals include the decimal)	N =0℃ to +70℃ W=-40℃ to +85℃ M=-10℃ to +70℃ E =-20℃ to +70℃ S = others	N=40/60% T=45/55% R=47.5/52.5%	S=Standard H=high Output Load	L=Cut Lead G=Gull Wing P=PLL X=Special F=Lead Free

SMD Clock Oscillator Part Numbering System

D — Internal Code | 33 | C | 20.0000 | N | N | S | T

Package	Frequency Stability	Nominal Frequency [in MHz]	Operating temperature Range	Output Symmetry	Output Load	Option (can be blank)
32=HXO-32 (7X5/TTL CMOS/5.0V) 33=HXO-33 (7X5/TTL CMOS/5.0V/3-STATE) 35=HXO-35 (7X5/TTL CMOS/3.3V) 36=HXO-36 (7X5/TTL CMOS/3.3V/3-STATE) 37=HXO-37 (7X5/TTL CMOS/1.8V/3-STATE) 39=HXO-39 (7X5/TTL CMOS/2.5V/3-STATE) 43=HXO-43 (Plastic/TTL CMOS/5.0V/3-STATE) 46=HXO-46 (Plastic/TTL CMOS/3.3V/3-STATE) 52=HXO-52 (5X3.2/TTL CMOS/5.0V) 53=HXO-53 (5X3.2/TTL CMOS/5.0V/3-STATE) 55=HXO-55 (5X3.2/TTL CMOS/3.3V) 56=HXO-56 (5X3.2/TTL CMOS/3.3V/3-STATE) 57=HXO-57 (5X3.2/TTL CMOS/1.8V/3-STATE) 59=HXO-59 (5X3.2/TTL CMOS/2.5V/3-STATE) SC=HXO-3225(3.2X2.5/TTL CMOS/3.3V/3-STATE) SD=HXO-3225(3.2X2.5/TTL CMOS/2.5V/3-STATE) SE=HXO-3225(3.2X2.5/TTL CMOS/1.8V/3-STATE)	A=±25ppm B=±50ppm C=±100ppm T=±10ppm G=±20ppm F=±15ppm	Please enter the nominal frequency (7 digitals include the decimal)	N =0℃ to +70℃ W=-40℃ to +85℃ M=-10℃ to +70℃ E =-20℃ to +70℃ S = others	N=40/60% T=45/55% R=47.5/52.5%	S=Standard H=high Output Load	P=PLL T=1.50mm Max Thickness (Only for 7x5 type) X=No Tri-State (Only for 43&46)

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