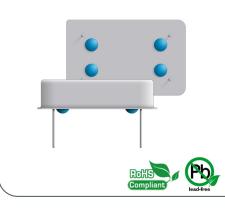
QX14 Series

14 pin Dual-in-Line HCMOS Clock Oscillator

Features

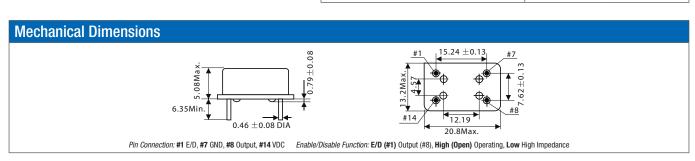
- Industry-standard 14 pin DIL package for compatibility
- Frequency range from 0.252kHz to 150MHz
- Choice of supply voltage 3.3 or 5.0 Volts DC
- Optional Tristate function (Enable/Disable)



General Specific	ations		
Frequency Range		0.500 to 155.000MHz	
Output Logic		HCMOS	
Temperature Stability*		±100ppm	
		±50ppm	
		±25ppm	
Aging per year		±5ppm	
Operating Temperature	' ' '		
Range	Industrial	-40 to +85°C	
Storage Temperature Ran	ge	-55 to +125°C	
* Frequency stability is inclusionable change due to shock & vibrat temperature range.		olerance at 25°C, frequency voltage variation and stability over	

Pin	Connection
1	NC or Tristate (Enable/Disable)
7	Ground
8	Output
14	+Vdd

Electrical Spe	cifications		
Supply Voltage		3.3Vdd ±10%	5.0Vdd ±10%
Input Current	0.500 to 24.000MHz	10mA	15mA
	24.100 to 50.000MHz	30mA	40mA
	50.100 to 155.000MHz	40mA	50mA
Output Voltage	Logic High (Voh)	90% Vdd min.	
	Logic Low (Vol)	10% Vo	ld max.
Output	Standard	40 to	60%
Symmetry	Tight	45 to	55%
Output Load	Standard	15pF	max.
	Medium	30pF	max.
	Heavy	50pF	max.
Rise and Fall Time	0.500 to 24.000MHz	10ns max.	8ns max.
	24.100 to 50.000MHz	6ns max.	5ns max.
	50.100 to 80.000MHz	5ns max.	4ns max.
	80.100 to 155.000MHz	4ns max. 4ns max.	
Standby Function		Tristate (optional)	
Output Eable/Disable	Time	100ns max.	
Standby Current		10μA max.	
Start Up Time		10ms max.	



Part Nur	nbering Gu	ide							
Qantek Code	Package	Option	Supply Voltage	Frequency Stability	Frequency	Operating Tempera- ture Range	Load Capacitance	Tight Symmetry Indicator	Packaging
Q = Qantek	X14 = DIP14	N = not connected T = Tristate (Enable/Disable)	33 = 3.3V 50 = 5.0V	$A = \pm 25ppm$ $B = \pm 50ppm$ $C = \pm 100ppm$	in MHz, always 8 digits including the decimal point (f.ie. 20.00000)	A = -10 to +70°C B = -40 to +85°C	15 = 15pF 30 = 30pF 50 = 50pF	T = 45/55	T = Tube
Example: QX14	1T33B20.00000B15	oT .							



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Marking Code Guide

Contains frequency, Qantek manufacturing Code, production code (month and year), stability, temperature range and voltage indicator.

Month	Co	des	
January	Α	July	G
February	В	August	Н
March	С	September	I
April	D	October	J
May	Ε	November	K
June	F	December	L

Year	Co	odes			
2019	9	2020	0	2021	1
2022	2	2023	3	2024	4
2025	5	2026	6	2027	7

Stability		
ppm	PN Code	ı
25	Α	ı
50	В	ı
100	С	ı
custom	S	ı

Temperatur	e Range
°C	PN Code
-10 to +70°C	Α
-40 to +85°C	В
custom	S

Environmental Specifications

Voltage	
Volt	PN Code
3.3	3
5.0	5
custom	S

Example: First Line: 20.000 (Frequency)

Second Line: QA9BB3 (Qantek – January – $2019 - \pm 50$ ppm – -40 to +85°C – 3.3V)

Solder I	Reflow Profile
Temperature (°C)	260 °C MAX. 217 °C 180 °C 150 °C 60 to 120 sec 45 to 90 sec
	/ Time (seconds)

0-202, Method 201 & 204
), Method 1010, B

All specifications are subject to change without notice.

