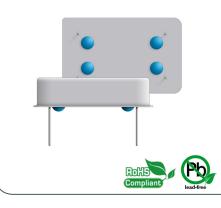
QX14 Series

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
- Hermetically sealed package for reliability and low aging
- Optional Tristate function (Enable/Disable)

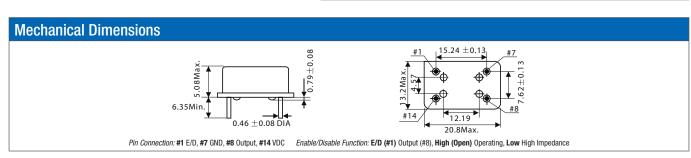


General Specifications		
Frequency Range		0.500 to 155.000MHz
Output Logic		HCMOS
Temperature Stability*		±100ppm
		±50ppm
		±25ppm
Aging per year		±5ppm
Operating Temperature Standard		-10 to +70°C
Range	Industrial	-40 to +85°C
Storage Temperature Range		-55 to +125°C
* Frequency stability is inclusi	plerance at 25°C frequency	

^{*} Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration, $\pm 10\%$ supply voltage variation and stability over temperature range.

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

Electrical Specifications			
Supply Voltage		3.3Vdd ±10%	5.0Vdd ±10%
Input Current	0.500 to 24.000MHz	00 to 24.000MHz 5mA	
	24.100 to 50.000MHz	10mA	15mA
	50.100 to 70.000MHz	25mA	50mA
	70.100 to 80.000MHz	25mA	50mA
	80.100 to 155.000MHz	60mA	60mA
Output Voltage	Logic High (Voh)	90% Vo	dd 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.	10ns max.
	24.100 to 50.000MHz	6ns max.	6ns max.
	50.100 to 70.000MHz	6ns max.	6ns max.
	70.100 to 80.000MHz	4ns 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.



Load Capacitance	Tight Symmetry Indicator	Packaging
15 = 15pF 30 = 30pF 50 = 50pF	T = 45/55	T = Tube
	15 = 15pF 30 = 30pF	15 = 15pF 30 = 30pF



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Marking Code Guide

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

Month Codes			
January	Α	July 0	
February	В	August	Н
March	С	September	1
April	D	October	J
May	Ε	November	K
June	F	December	L

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

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

Temperature Range		
PN Code		
Α		
В		
S		

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 50ppm – -40 to +85°C – 3.3V)

Solder F	Reflow Profile
Temperature (°C)	260 °C MAX.
Tempera	60 to 120 sec 45 to 90 sec
	Time (seconds)

Environmental Specifications		
Mechanical Shock	MIL-STD-202, Method 213, C	
Vibration	MIL-STD-202, Method 201 & 204	
Thermal Cycle	MIL-STD, Method 1010, B	
Gross Leak	MIL-STD-202, Method 112	
Fine Leak	MIL-STD-202, Method 112	

All specifications are subject to change without notice.

