Features

- Industry-standard 8 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)



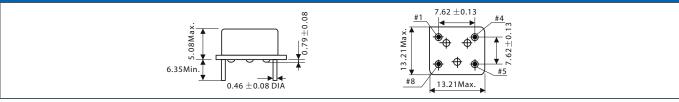
General Specifications								
Frequency Range	0.252 to 150.000MHz							
Output Logic	HCMOS							
Temperature Stability*	±100ppm							
	±50ppm							
	±25ppm							
Aging per year	±5ppm							
Operating Temperature	Standard	-10 to +70°C						
Range	Industrial	-40 to +85°C						
Storage Temperature Range	-55 to +125°C							

 * Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration, $\pm10\%$ supply voltage variation and stability over temperature range.

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

Electrical Spe	cifications				
Supply Voltage		3.3Vdd ±10%	5.0Vdd ±10%		
Input Current	0.252 to 24.000MHz	5mA	10mA		
	24.100 to 50.000MHz	10mA	15mA		
	50.100 to 70.000MHz	25mA	50mA		
	70.100 to 80.000MHz	25mA	50mA		
	80.100 to 150.000MHz	60mA	60mA		
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	0.252 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 150.000MHz	4ns max. 4ns max.			
Standby Function		Tristate (optional)			
Output Eable/Disable	Time	100ns max.			
Standby Current		10µA max.			
Start Up Time		10ms	max.		

Mechanical Dimensions



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	X8 = DIP8	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: QX81	[33B20.00000B15]	Г							



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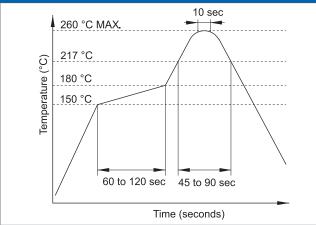
www.qantek.com info@qantek.com

Marking Code Guide

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

Month	Со	des		Year Codes					Stability		Temperature Range		Voltage			
January	Α	July	G	2010	0	2011	1	2012	2		ррт	PN Code	°C	PN Code	Volt	PN Code
February	В	August	Н	2013	3	2014	4	2015	5		25	A	-10 to +70°C	А	3.3	3
March	С	September	Ι								50	В	-40 to +85°C	В	5.0	5
April	D	October	J								100	С	custom	S	custom	S
Мау	E	November	K								custom	S				
June F December L																
Example:	Example: First Line: 20.000 (Frequency) Second Line: QA1BB3 (Qantek – January – 2011 – ±50ppm – -40 to +85°C – 3.3V)															

Solder Reflow Profile



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.



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