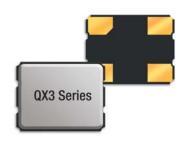
Features

- Ultra-miniature 2.5 x 3.2 x 1.2mm package
- Frequency Range 1.000 to 75.000MHz
- Tristate (Enable/Disable) function as standard
- Supply voltage 1.8, 2.5 or 3.3 Volts

Description

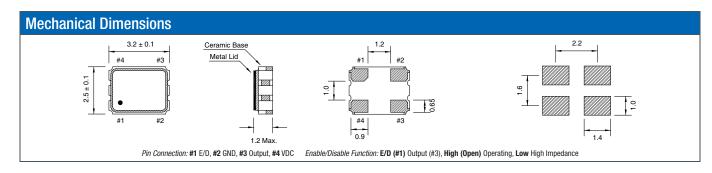
QX3 ultra-miniature oscillators consist of a TTL/ HCMOS-compatible hybrid circuit and a miniature quartz crystal packaged in a low-profile, industry-standard ceramic package.





General Specifications							
Frequency Range	1.000 to 75.000MHz						
Output Logic	HCMOS						
Temperature Stability*	±100ppm						
	±50ppm						
		±25ppm					
	±20ppm						
Phase Jitter RMS	<1ps typ.						
Aging per year		±5ppm					
Operating Temperature	Standard	-20 to +70°C					
Range	Industrial	-40 to +85°C					
	Extended	-40 to +105°C					
	-40 to +125°C						
Storage Temperature Ran	-55 to +125°C						
* Frequency stability is inclusive of calibration tolerance at 25°C, frequency change due to shock & vibration, ±10% supply voltage variation and stabilit over temperature range.							

Electrical	Specifications			1				
Supply Voltage		1.8 Vdd ± 5%	2.5 Vdd ± 5%	$3.3 \text{ Vdd} \pm 5\%$				
Input Current	1.000 to 32.000MHz	7mA	20mA	20mA				
	32.100 to 50.000MHz	15mA	20mA	25mA				
	50.100 to 60.000MHz	15mA	20mA	25mA				
	60.100 to 75.000MHz	15mA	20mA	25mA				
Output Voltage	Logic High (Voh)	90% (80% at 1.8) Vdd min.						
	Logic Low (Vol)	10% (20% at 1.8) Vdd max.						
Output	Standard	40 to 60%						
Symmetry	Tight	45 to 55%						
Output Current	Lol/Loh	±2mA min.						
Output Load		15pF max.						
Rise and Fall	1.000 to 32.000MHz	5ns max.	6ns max.	6ns max.				
Time	32.100 to 50.000MHz	3.5ns max.	6ns max.	6ns max.				
	50.100 to 60.000MHz	3.5ns max.	10ns max.	10ns max.				
	60.100 to 75.000MHz	3.5ns max.	10ns max.	10ns max.				
Standby Current		10µA max.						
Enable-Disable F	Function	Tri-State						
Output Disable T	ïme	300ns max. 150ns max.						
Output Enable Ti	me	10ms max. 5ms max.						
Start Up Time		5 (10 at 1.8Vdd) ms max.						



Part Numbering Guide									
Qantek Code	Package	Supply Voltage	Frequency Stability	Frequency	Operating Tem- perature Range	Automotive Indicator	Load Capacitance	Tight Symmetry Indicator	Packaging
Q = Qantek	X3 = 2.5x3.2	18 = 1.8V 25 = 2.5V 33 = 3.3V	$A = \pm 25ppm$ $B = \pm 50ppm$ $C = \pm 100ppm$ $D = \pm 20ppm$	in MHz, always 8 digits including the decimal point (f.ie. 20.00000)		A = AEC-Q200	15 = 15pF	T = 45/55	R = Tape&Reel M = Minireel (250pcs Tape&Reel)
Example: QX	Example: QX333B20.00000B15R bold letters = recommended standard specification								

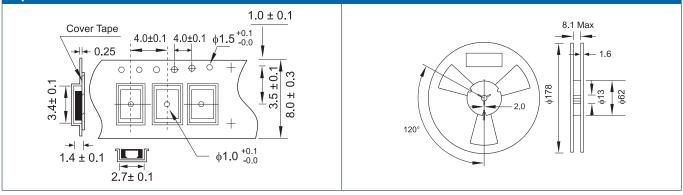


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Tape and Reel Dimensions

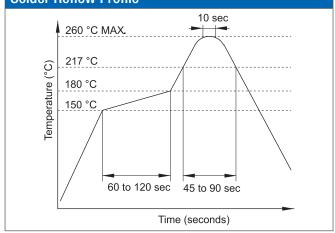


Marking Code Guide

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

Month	Co	des		Year Codes			Stability		Temperature Range		Voltage					
January	A	July	G	20	0 0	2011	1	2012	2		ppm	PN Code	°C	PN Code	Volt	PN Code
February	В	August	Н	20	3 3	2014	4	2015	5		20	D	-20 to +70°C	А	1.8	1
March	C	September	Ι							25	А	-40 to +85°C	В	2.5	2	
April	D	October	J								50	В	-40 to +105°C	С	3.3	3
Мау	E	November	K								100	С	-40 to +125°C	D	5.0	5
June	June F December L Custom S Custom S									S						
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							
MIL-STD-202, Method 213, C							
MIL-STD-202, Method 201 & 204							
MIL-STD, Method 1010, B							
MIL-STD-202, Method 112							
MIL-STD-202, Method 112							

All specifications are subject to change without notice.



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