# **QCP9 Series**

4.6x12.5 4-Pad Plastic SMD Crystal Unit

### **Features**

- Excellent environmental and heat resistance plastic package with reflow capability
- Extended temperature -40 to +85°C for industrial applications

## **Applications**

• Commercial and Industrial applications

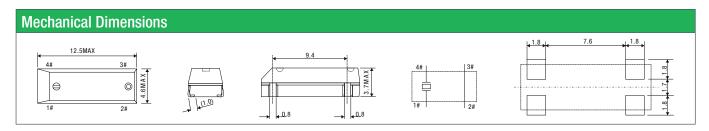




General Specifications			
Frequency Range	3.579545 to 27.000MHz (Fundamental)		
Frenquency Tolerance at 25°C	±30 to ±50ppm (±50ppm standard)		
Frequency Stability over Temperature Range	See Stability vs. Temperature Table		
Storage Temperature	-55 to +125°C		
Aging per Year	±5ppm max.		
Load Capacitance C <sub>L</sub>	10 to 32pF		
Shunt Capacitance C <sub>0</sub>	7.0pF max.		
Equivalent Series Resistance (ESR)	See ESR Table		
Drive Level	100μW typ. (500μW max)		
Insulation Resistance (M $\Omega$ )	500 at 100Vdc ±15Vdc		

Equivalent Series Resistance (ESR)			
Frequency Range - MHz	$\Omega$ max.	Mode of Operation	
3.500 to 3.999	200	Fundamental	
4.000 to 6.999	150		
7.000 to 8.999	120		
9.000 to 11.999	100		
12.000 to 13.999	80		
14.000 to 19.999	70		
20.000 to 27.000	60		

Frequency Stability vs					
Operating Temperature	±30ppm	±50ppm	±100ppm		
-20 to +70°C	0	0	0		
-40 to +85°C	0	•	0		
			● standard ○ available		

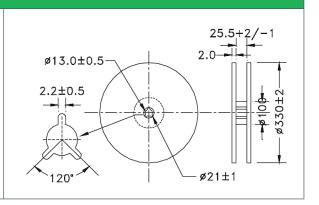


Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	CP9 = 4.6x12.5 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	12 = 12pF 16 = 16pF <b>18 = 18pF</b> 20 = 20pF 30 = 30pF etc.	A = -20 to +70°C B = -40 to +85°C	3 = ±30ppm <b>5 = ±50ppm</b> 0 = ±100ppm	3 = ±30ppm <b>5 = ±50ppm</b> 0 = ±100ppm	R = 1000pcs Tape&Reel R3 = 3000pcs Tape&Reel
Example: QCP912.0000F12B55R bold letters = recommended standard specifical			ded standard specification					



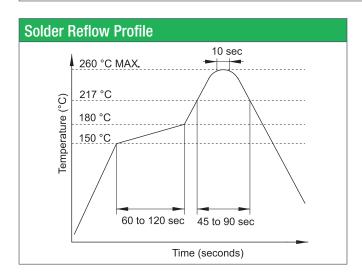
Phone: +1 877-227-0440 (tollfree) www Fax: +1 877-227-0440 (tollfree) info

# Tape and Reel Dimensions FEEDING (PULL) DIRECTION 0.4±.05 1.75±0.1 2.0±0.1 4.0±0.1 5.0±0.1 91.5 8±0.1 4.8±0.1



## **Marking Code Guide**

Contains frequency



<b>Environmental Specifications</b>		
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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QCL9.83040F18B23B QX14T50B10.00000B50TT QX14T50B48.00000B50TT QX8T50B18.43200B50TT QCS22.1184F18B23M QX14T50B18.43200B50TT QX8T50B1.843200B50TT QX14T50B7.372800B50TT QC5CB8.00000F18B23R QCL27.0000F18B23B QC5A10.0000F12B12M QCL14.31818F18B23B QX14T50B4.000000B50TT QX14T50B4.096000B50TT QX14T50B24.00000B50TT QX8T50B25.00000B50TT QX14T50B25.00000B50TT QX233A32.00000B15M QC5A12.0000F12B12M QCP914.31818F18B35R QCS24.5760F18B23M QCS10.0000F18B23M QX8T50B8.000000B50TT QC3CA29.4912F18B23M QX8T50B20.00000B50TT QCS3.68640F18B23M QX8T50B4.915200B50TT QX318A24.00000B15M QCS4.00000F18B23M QC6A8.00000F18B23M QCS32.0000F18B23M QC1627.1200F08B12M QC5CA8.00000F18B23M QC7A32.0000F12B12M QC7A19.6608F18B12M QC3224.0000F12B12M QCS4.91520F18B23M QC5A18.4320F12B12M QC5CA25.0000F12B23M QCS12.2880F18B23B QX733A16.00000B15M QCS6.00000F18B23M QX733A32.00000B15M QC3CA12.2880F12B23M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M QCS12.2880F18B23M QX733A25.00000B15M QC7A11.0592F12B12M QC7A6.00000F12B12M QC5A27.0000F18B12M