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

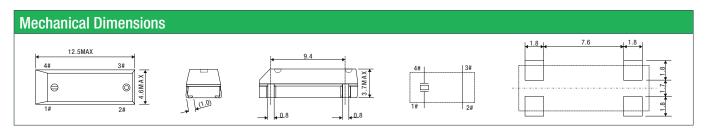
• Commercial and Industrial applications



General Specifications		
Frequency Range	3.579545 to 27.000MHz (Fundamental)	
Frequency 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 _L	10 to 32pF	
Shunt Capacitance C ₀	7.0pF max.	
Equivalent Series Resistance (ESR)	See ESR Table	
Drive Level	100μW typ. (500μW max)	
Insulation Resistance (M Ω)	500 at 100Vdc ±15Vdc	

Equivalent Series Resistance (ESR)			
Frequency Range - MHz	Ω max.	Mode of Operation	
3.500 to 3.999	200	Fundamental	
4.000 to 6.000	150		
6.100 to 9.999	120		
10.000 to 11.999	80		
12.000 to 70.000	70		

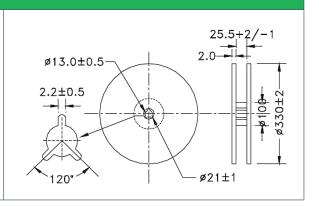
Frequency Stability v				
Operating Temperature	±30ppm	±50ppm	±100ppm	
-20 to +70°C	0	0	0	
-40 to +85°C	0	•	0	
			● standard ○ available	



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 18 = 18pF 20 = 20pF 30 = 30pF etc.	A = -20 to +70°C B = -40 to +85°C	3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	$3 = \pm 30$ ppm $5 = \pm 50$ ppm $0 = \pm 100$ ppm	R = 1000pcs Tape&Reel

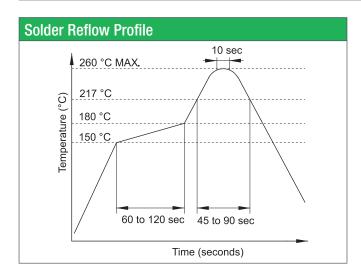


Tape and Reel Dimensions FEEDING (PULL) DIRECTION 0.4±.05 1.75±0.1 91.5 91.5 91.5 8±0.1 4.8±0.1



Marking Code Guide

Contains frequency



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.

