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



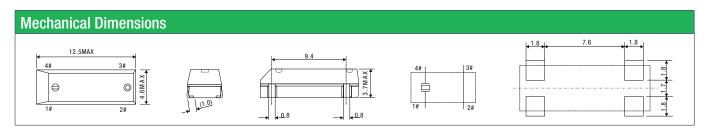




General Specifications			
Frequency Range	3.579545 to 27.000MHz (Fundamental)		
Frenquency Tolerance at 25°C	±30 to ±50ppm (±50ppm standard)		
Frequency Stability over Temperature Range	See Stability vs. Temperature Table		
Storage Temperature	-55 to +125°C		
Aging per Year	±5ppm max.		
Load Capacitance C _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 (MΩ)	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 6.999	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. Temperature					
Operating Temperature	±30ppm	±50ppm	±100ppm		
-20 to +70°C	0	0	0		
-40 to +85°C	0	•	0		
			● standard ○ available		

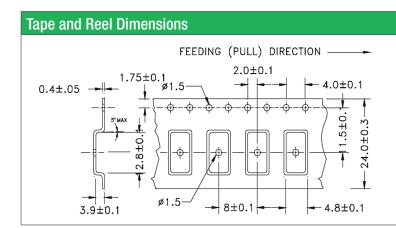


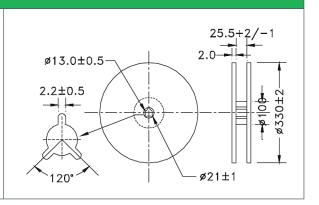
Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	CP9 = 4.6x12.5 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	12 = 12pF 16 =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



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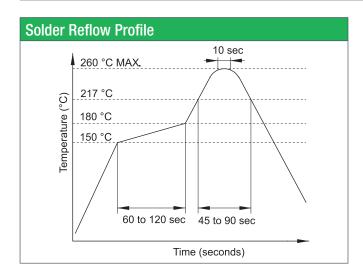
Phone: +1 877-227-0440 (tollfree) +1 877-227-0440 (tollfree)





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.

