

QCP9 Series

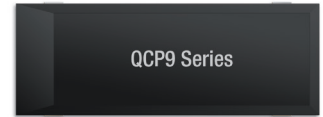
4.6x12.5 4-Pad Plastic SMD Crystal Unit

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 (MΩ)	500 at 100Vdc ±15Vdc

Equivalent Series Resistance (ESR)

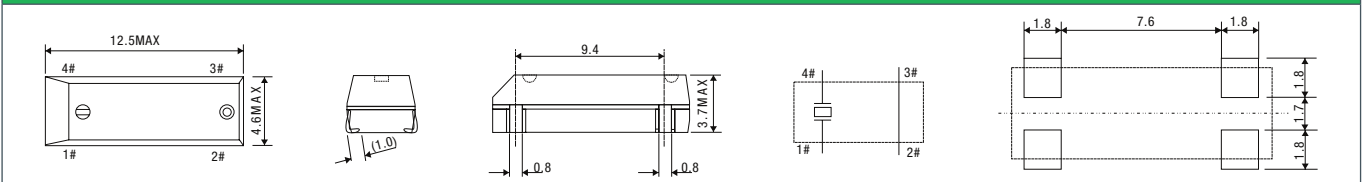
Frequency Range - MHz	Ω max.	Mode of Operation
3.500 to 3.999	200	Fundamental
4.000 to 6.000	150	
6.100 to 9.999	120	
10.000 to 11.999	80	
12.000 to 70.000	70	

Frequency Stability vs. Temperature

Operating Temperature	±30ppm	±50ppm	±100ppm
-20 to +70°C	○	○	○
-40 to +85°C	○	●	○

● standard ○ available

Mechanical Dimensions



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.i.e. 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

Example: QCP912.0000F12B55R

bold letters = recommended standard specification



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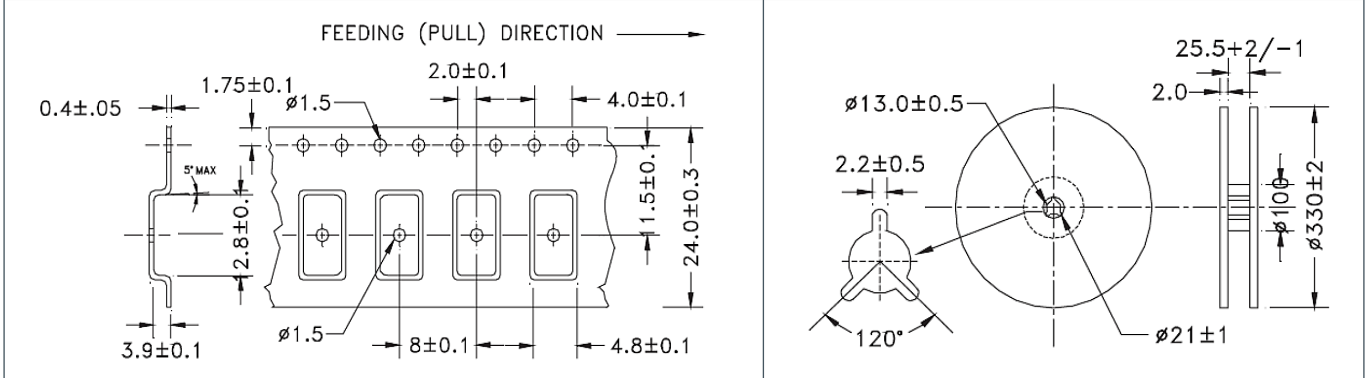
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QCP9 Series

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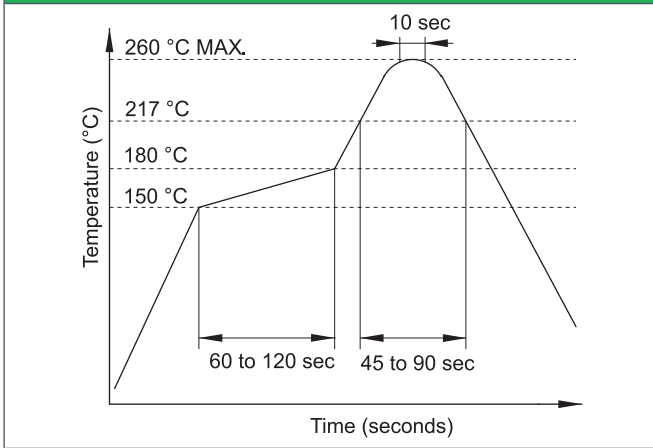
Tape and Reel Dimensions



Marking Code Guide

Contains frequency

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.