QC20 Series

1.6x2.0 4-Pad SMD Quartz Crystal Unit

Features

- 1.6 x 2.0 x 0.5mm ultra miniature package
- Seam sealed ceramic package with metal lid assures high precision and reliability

Applications

- High density applications
- Modem, communication and test equipment
- PMCIA, wireless applications
- Automotive applications

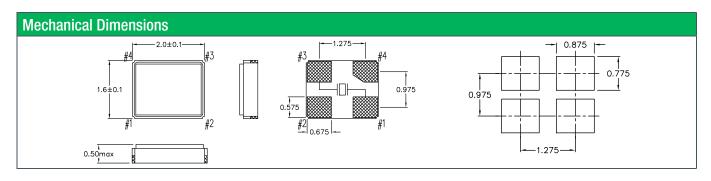




General Specifications	
Frequency Range	20.000 to 52.000MHz (Fundamental)
Frenquency Tolerance at 25°C	±10 to ±30ppm (±30ppm standard)
Frequency Stability over Temperature Range	See Stability vs. Temperature Table
Storage Temperature	-40 to +85°C
Aging per Year	±3ppm max.
Load Capacticance C _L	7 to 32pF and Series Resonance
Shunt Capacticance C ₀	7.0pF
Equivalent Series Resistance (ESR)	See ESR Table
Drive Level	50μW max.
Insulation Resistance (M Ω)	500 at 100Vdc ±15Vdc

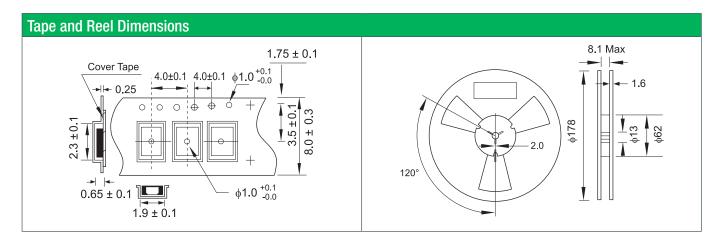
Equivalent Series Resistance (ESR)				
Frequency Range - MHz Ω max. Mode of Operation				
20.000 to 40.000	100	Fundamental		
40.100 to 52.000	60			

Frequency Stability vs. Temperature					
Operating Temperature	±10ppm	±20ppm	±30ppm	±50ppm	±100ppm
-20 to +70°C	0	0	0	0	0
-40 to +85°C	-	0	•	0	0
				•	standard O available



Part N	Part Numbering Guide								
Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Tem- perature Range	Frequency Tolerance	Frequency Stability	Automotive Indicator	Packaging
Q = Qantek	C20 = 1.6x2.0 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series 08 = 8pF 12 = 12pF 18 = 18pF 20 = 20pF etc.	A = -20 to +70°C B = -40 to +85°C	1 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	1 = ±10ppm 2 = ±20ppm 3 = ±30ppm 5 = ±50ppm 0 = ±100ppm	not available	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel
Example: Q	Example: QC2024.0000F12B33R bold letters = recommended standard specification					led standard specification			





Marking Code Guide

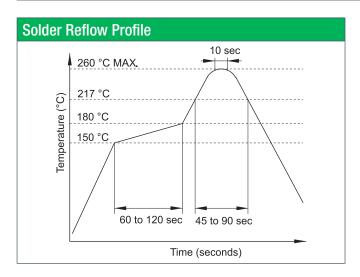
Contains frequency, Qantek manufacturing code, production code (month and year) and load capacitance.

Month Codes					
January	А	July	G		
February	В	August	Н		
March	С	September	I		
April	D	October	J		
May	Е	November	K		
June	F	December	L		

Year	Year Codes						
2010	0	2011	1	2012	2		
2013	3	2014	4	2015	5		

Load Capacitance Code in pF						
pF	PN Code	pF	PN Code			
12	Α	20	F			
18	В	22	G			
8	С	30	Н			
10	D	32	I			
16	Е	S	S			

Example: First Line: 12.000 (Frequency) Second Line: QA1A (Qantek - January - 2011 - 12 pF)



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.



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