#### **Features**

- 1.2 x 1.6 x 0.4mm 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

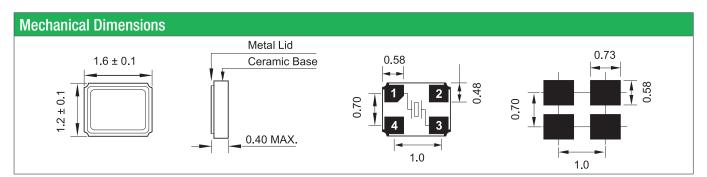




General Specifications					
Frequency Range	24.000 to 40.000MHz (Fundamental)				
Frenquency Tolerance at 25°C	$\pm 15$ to $\pm 30$ ppm ( $\pm 30$ ppm standard)				
Frequency Stability over Temperature Range	See Stability vs. Temperature Table				
Storage Temperature	-55 to +125°C				
Aging per Year	±3ppm max.				
Load Capacticance C <sub>L</sub>	7 to 32pF and Series Resonance				
Shunt Capacticance C <sub>0</sub>	3.0pF				
Equivalent Series Resistance (ESR)	See ESR Table				
Drive Level	100µW max.				
Insulation Resistance (MΩ)	500 at 100Vdc ±15Vdc				

Equivalent Series Resistance (ESR)						
Frequency Range - MHz	$\Omega$ max.	Mode of Operation				
24.000 to 31.999	120	Fundamental				
32.000 to 38.399	100					
38.400 to 40.000	80					

Frequency Stability vs. Temperature						
Operating Temperature	±15ppm	±20ppm	±25ppm	±30ppm	±50ppm	
-20 to +70°C	0	0	0	0	•	
-40 to +85°C	0	0	0	0	0	
				•	standard O available	



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	C16 = 1.2x1.6 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	$1 = \pm 15ppm$ $2 = \pm 20ppm$ $3 = \pm 25ppm$ $4 = \pm 30ppm$	$1 = \pm 15ppm  2 = \pm 20ppm  3 = \pm 25ppm  4 = \pm 30ppm  5 = \pm 50ppm$	not available	M = 250pcs Tape&Reel R = 1000pcs Tape&Reel R3 = 3000pcs Tape&Reel
Example: QC1624.0000F12B45R bold letters = recommended standard specificat						led standard specification			



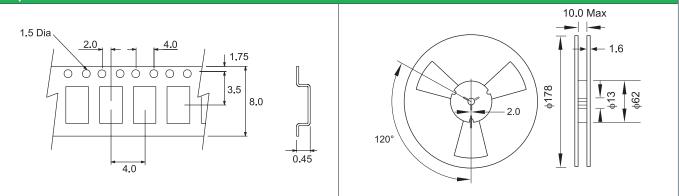
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#### **Tape and Reel Dimensions**



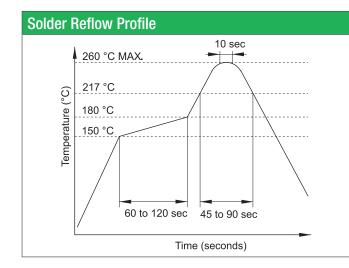
#### **Marking Code Guide**

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

Year/Month Codes												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011 / 2015	А	В	С	D	E	F	G	Н	J	K	L	М
2012 / 2016	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z
2013 / 2017	а	b	С	d	е	f	g	h	j	k	I	m
2014 / 2018	n	р	q	r	S	t	u	v	w	х	у	z

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

Example: First Line: 240 (Frequency) Second Line: QAA (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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