QCM26 Series

2.0x6.0 Metal Cylindrical Quartz Crystal Unit

Features

- AT-cut crystal performance
- Ideal for Microprocessor Applications
- RoHS compliant by exemption

Applications

- Commercial and Industrial applications

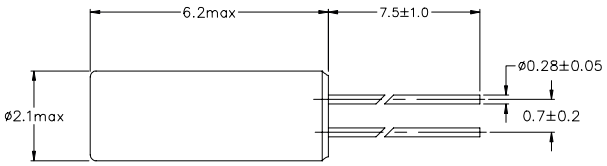
General Specifications

Frequency Range		6.000 to 48.000MHz
Mode of Oscillation	Fundamental	6.000 to 36.000MHz
	Third Overtone	36.000 to 48.000MHz
Frenquency Tolerance at 25°C		±30ppm
Frequency Stability over Temperature Range		±30ppm
Operating Temperature Range		-10 to +70°C
Storage Temperature		-55 to +125°C
Aging per Year		±5ppm max.
Load Capacitance C_L		10 to 32pF and Series Resonance
Shunt Capacitance C_0		7.0pF max.
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	Ω max.	Mode of Operation
6.000 to 12.000	100	Fundamental
12.100 to 20.000	70	
20.100 to 36.000	50	
36.100 to 52.000	80	Third Overtone

Mechanical Dimensions



Marking Code Guide

Contains frequency

Part Numbering Guide

Qantek Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Packaging
Q = Qantek	CM26 = 2.0x6.0 Metal Cylindrical Quartz Crystal Unit	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 = -10 to +70°C**	**3 = ±30ppm** 5 = ±50ppm 0 = ±100ppm	**3 = ±30ppm** 5 = ±50ppm 0 = ±100ppm	B = Bulk (1000 pcs/bag)

Example: QCM2612.0000F12A33B

bold letters = recommended standard specification

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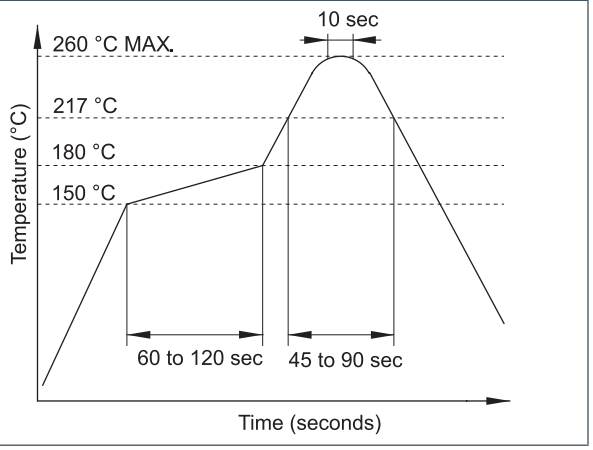
Solder Reflow Profile



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.

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