Quartz Crystal

Data sheet

AT-26

Through Hole Cylinder type Quartz Crystal (dia. 2.0 x 6.2 mm)

FEATURES

- High reliability and good stability
- Outstanding shock resistance, vibration resistance
- Cylindric metal package vacuum sealed
- Applications: Consumer electronics, Microprocessor clocks...

Parameter	min.	typ.	max.	Unit	Condition
Frequency range	6.0		27.0	MHz	
Vibration mode	AT cut, fundamental				
Frequency stability					
Initial tolerance @25°C		±30		ppm	Specify (see options)
vs. operating temperature range		±30		ppm	Specify (see options)
operating temperature range	-10		+60	°C	Specify (see options)
Equivalent Series Resistance (ESR)	See table 1				
Load Capacitance (CL)	16pF, 18pF, 20pF or specify (see options)				
Shunt Capacitance (Co)			5.0	pF	
Drive Level			300	µW	
Aging		±5		ppm	At 25°C, first year
Insulation Resistance	500			MΩ	@ 100Vdc
Enclosure (see drawing) (LxWxH)	Dia. 2.0 x 6.2			mm	
Packing	Bulk in bag				

Ordering Code:

Freq. Tolerance @ 25°C	Freq. Stability	Operating Temp. range	Load Capacitance	Mode	Frequency in MHz	(ESR if other than STD)
20 = ± 20ppm	20 = ± 20ppm	**D** = -10 / +60°C	Please specify CL	F = Fundamental	Specify the	Specify a value
25 = ± 25ppm	25 = ± 25ppm	**E** = 0° / +70°C	in pF or		frequency in MHz	in Ω
30 = ± 30ppm	30 = ± 30ppm	**F** = -20° / +70°C	S for series			
50 = ± 50ppm	50 = ± 50ppm	**G** = -30° / +75°C				
		H = -30° / +85°C				
		K = -40° / +85°C				

Example: AT-26-30-30-F-20-F-17.600MHz

FCD-Tech B.V.
P.O. Box 1183
1700 BD Heerhugowaard
Netherlands

Phone: +31 (0)20 8932140
Email: sales@fcd-tech.com
Website: www.fcd-tech.com

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Outline Dimensions:

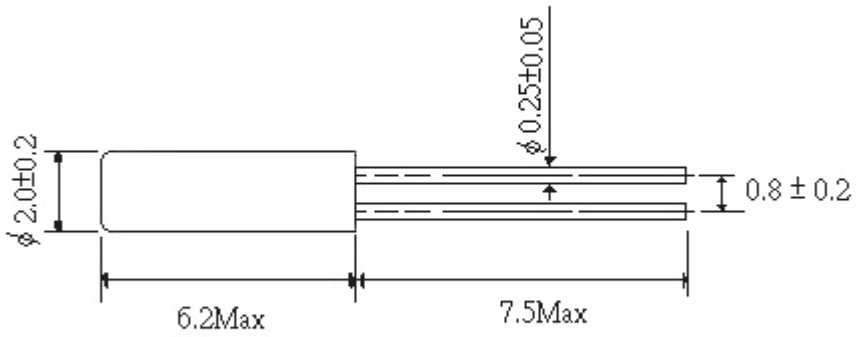

Table 1 : Standard ESR

Frequency	Mode	ESR
6.0 ~ 11.9 MHz	Fundamental	100 Ω max.
12.0 ~ 27.0 MHz	Fundamental	60 Ω max.

Environmental conditions

Test	IEC 60068 Part ...	IEC 60679-1 clause ...	Test conditions (IEC)
Sealing tests (if applicable)	2-17	5.6.2	Gross leak: Test Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20 2-58	5.6.3	Test Ta Method 1 Test Td_1 Method 2 Test Td_2 Method 2
Shock*	2-27	5.6.8	Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Vibration, sinusoidal*	2-6	5.6.7.1	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Vibration random *	2-64	5.6.7.3	Test Fdb
Endurance tests - ageing - extended aging		 5.7.1 5.7.2	 30 days @ 85°C, OCXO @25°C 1000h, 2000h, 8000h @85°C

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