

DESCRIPTION

The tuning fork type crystal is used as a clock source in microprocessor, measuring instrument and other time application.

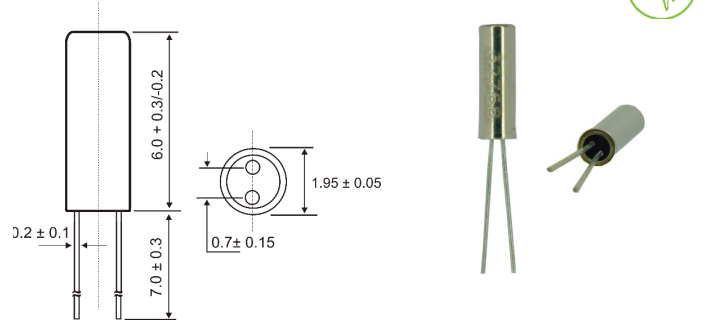
ELECTRICAL SPECIFICATION

Frequency Range	25.000 to 150.000 kHz
Load Capacitance	6pF or 12.5pF (Typical)
Frequency Tolerance (at 25°C)	From ±30ppm Maximum
Operating Temperature Range	-10°C to +60°C Standard (or Optional)
Storage Temperature Range	-40°C to +85°C
Equivalent Series Resistance (ESR)	40kOhms Maximum
Drive Level	1.0µW
Shunt Capacitance	1.7pF Maximum
Aging (at 25°C)	±3ppm per year
Insulation Resistance	500MOhm Minimum

MECHANICAL SPECIFICATION

Conditions		Results
1. Terminal Strength		
Lead pulling test	Load	907.2 grams
	Direction	to the downward
	Duration of applied force	5 seconds
Lead bending test	Load	453.6 grams
	Bending angle	90° to normal position
	Rate of bending	3 seconds in each cycle
	Number of bending	3
2. Lead solderability test		
	Dipping in solder (+230°C ±5°C) for 5 seconds	More than 95% of surface being tested should be coated uniformly with solder
3. Vibration test		
	Frequency	10 - 55Hz
	Amplitude	0.762mm
	Sweep	1.0 minute
	Duration	2 hours
4. Drop test		
	Method of drop	Natural drop
	Dropping floor	Hard wood board
	Height	75 cm
	Number of drops	3 times

MECHANICAL DIMENSIONS (all in mm)



ENVIRONMENTAL SPECIFICATION

Conditions		Results
1. Temperature test		
Temperature cycling test	Steps of cycle	1) at -55°C, 30 minutes
		2) at +25°C, 10-15 min.
		3) at +85°C, 30 minutes
		4) at +25°C, 10-15 min.
	Number of cycles	3 times
2. Aging test		
	Temperature	+85°C ±20°C
	Length of test	96 hours
3. Salt spray test		
	Temperature	+35°C ±2°C
	Length of test	48 hours
	NaCl %	5%
4. Humidity test		
	Temperature	+40°C ±2°C
	Relative humidity	90 - 95%
	Length of test	96 hours

Frequency and wave form of tested products must remain within specifications

Deviation of frequency must be less than ±3ppm

There should be no stain on surface of products

a) Insulation resistance must be 500 MOhms/100 Vac minimum.
b) Resistance and wave form must remain within specifications

PART NUMBERING SYSTEM (Example)

