

DESCRIPTION

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

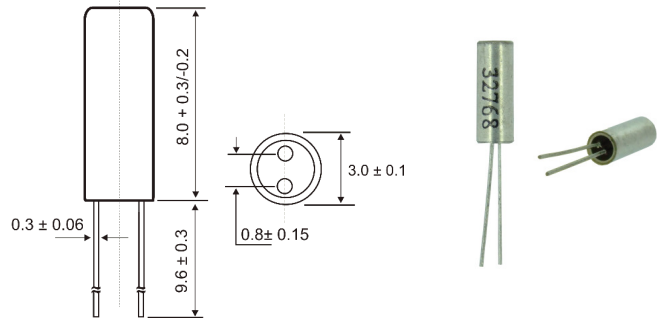
ELECTRICAL SPECIFICATION

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	There should be no distortion in appearance
	Direction	to the downward	
	Duration of applied force	5 seconds	
Lead bending test	Load	453.6 grams	There should be no distortion in appearance
	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	Frequency and wave form of tested products must remain within specifications
	Amplitude	0.762mm	
	Sweep	1.0 minute	
	Duration	2 hours	
4. Drop test			
	Method of drop	Natural drop	Frequency and wave form of tested products must remain within specifications
	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	Frequency and wave form of tested products must remain within specifications
		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	Deviation of frequency must be less than ±3ppm
	Length of test	96 hours	
3. Salt spray test			
	Temperature	+35°C ±2°C	There should be no stain on surface of products
	Length of test	48 hours	
	NaCl %	5%	
4. Humidity test			
	Temperature	+40°C ±2°C	a) Insulation resistance must be 500 MOhms/100 Vac minimum. b) Resistance and wave form must remain within specifications
	Relative humidity	90 - 95%	
	Length of test	96 hours	

PART NUMBERING SYSTEM (Example)

