



PRODUCTS

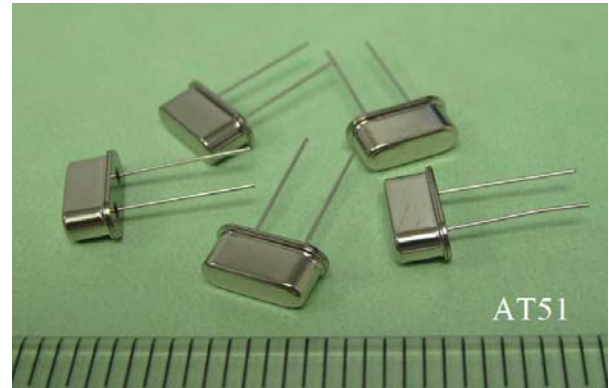
Crystal Unit (Through Hole)

For Automotive Electronics

**AT51
(AT51 Series)**

Part Number: AT51-Freq-CL

Example: AT51-4.000-18



CRYSTAL (For Automotive Electronics)

Specification		AT51
Part No.	Example	
AT51-Freq-CL	AT51-4.000-18	

Specification	AT51
Frequency Range	3.5 to 66.0MHz
Mode of Oscillation	Fundamental / 3rd Overtone
Tolerance at 25°C	±10ppm to ±50ppm
Temperature Stability	±5ppm to ±50ppm
Operating Temperature Range	-10°C to +60°C / -40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Load Capacitance	10 to 32pF / Series
ESR	* See Table Below
Drive Level	100µW Max.
Aging	±5ppm/year Max.

* AT51 ESR Table

Oscillation Mode	Frequency Range (MHz)	ESR (Ohm)
Fundamental	3.5 to 3.9	200 Max.
	4.0 to 7.9	150 Max.
	8.0 to 11.9	70 Max.
	12.0 to 23.9	50 Max.
	24.0 to 30.0	40 Max.
3rd Overtone	30.0 to 66.0	80 Max.

Dimension (Unit: mm)

