



PRODUCTS

Crystal Unit (SMD)

For Automotive Electronics

AT49 SMD (AT49 SMD Series)

Part Number: AT49-Freq-CL-SMD

Example: AT49-4.000-18-SMD



CRYSTAL (For Automotive Electronics)

Specification		AT49 SMD
Part No.	Example	
AT49-Freq-CL-SMD	AT49-4.000-18-SMD	

Specification	AT49 SMD
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.

* AT49 SMD 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.

