

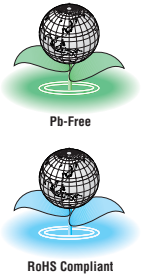
Miniature Crystal Resonators / MHz Band Crystal Resonators

AT-38, AT-49



■ Features

- Crystal resonators offering excellent frequency stability for use in microprocessors and other standard clocks.
- The AT-49 is also suitable for visual applications.



■ Standard Specification

Item	Type	AT-38		AT-49	
		Frequency Range		3.579~28.0MHz	3.072~33.9MHz
Overtone Order		Fundamental		3rd overtone	
Load Capacitance		Series, 8pF, 10pF, 12pF, 16pF			
Drive Level		10μW(300μW max.)		50μW(1mW max.)	
Frequency Tolerance		±30×10 ⁻⁶ , ±50×10 ⁻⁶ , ±100×10 ⁻⁶ (at 25°C)			
Series Resistance		40~200Ω max.	40~300Ω max.	80~100Ω max.	
Frequency Characteristics over Temperature		±30×10 ⁻⁶ , ±50×10 ⁻⁶ , ±100×10 ⁻⁶ /-10~+60°C(Ref. to 25°C)			
Storage Temperature Range		-30~+80°C			
Standard Specification		Refer to page 38			

Consult our sales representative for other specifications.

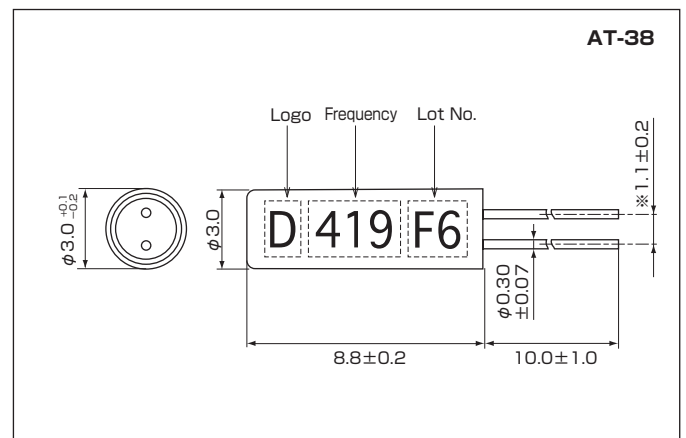
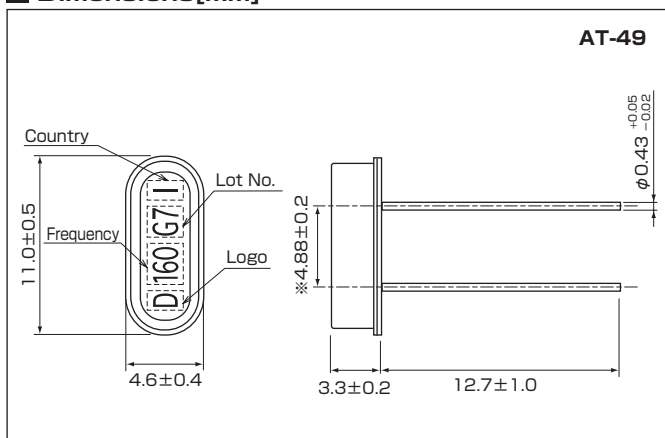
■ Series Resistance

Frequency	Type	Overtone Order	AT-49
3.072 ~ 3.5MHz		Fundamental	300Ω max.
3.5 ~ 3.8MHz		Fundamental	150Ω max. <small>For Visuals 300Ω max.</small>
3.8 ~ 4.1MHz		Fundamental	120Ω max.
4.1 ~ 5.0MHz		Fundamental	100Ω max.
5.0 ~ 6.0MHz		Fundamental	80Ω max.
6.0 ~ 8.0MHz		Fundamental	70Ω max.
8.0 ~ 10.0MHz		Fundamental	60Ω max.
10.0 ~ 12.0MHz		Fundamental	50Ω max.
12.0 ~ 28.0MHz		Fundamental	40Ω max.
28.0 ~ 33.9MHz		Fundamental	50Ω max.
26.0 ~ 40.0MHz		3rd overtone	100Ω max.
40.0 ~ 70.0MHz		3rd overtone	80Ω max.

Frequency	Type	Overtone Order	AT-38
3.579 ~ 3.7MHz		Fundamental	200Ω max.
3.7 ~ 4.0MHz		Fundamental	180Ω max.
4.0 ~ 4.1MHz		Fundamental	150Ω max.
4.1 ~ 5.0MHz		Fundamental	120Ω max.
5.0 ~ 7.0MHz		Fundamental	100Ω max.
7.0 ~ 10.0MHz		Fundamental	80Ω max.
10.0 ~ 12.0MHz		Fundamental	70Ω max.
12.0 ~ 14.0MHz		Fundamental	60Ω max.
14.0 ~ 16.0MHz		Fundamental	50Ω max.
16.0 ~ 28.0MHz		Fundamental	40Ω max.

Consult our sales representative for other specifications.
Refer to page 38 for standard specification.

■ Dimensions[mm]



※Measurement between the root of the leads.