

Model	AGX-T49U	AGX-T49S / T49SS / T49S+	AGX-TU1, AGX-TU5
Frequency Range	1.0 ~ 200 MHz	3.2 ~ 70 MHz	1.0~200MHz
Mode of Oscillation	2.01~45.0MHz:AT-cut Fund. 24.0~100MHz: AT-cut 3 <sup>rd</sup> Overtone 80.0~160MHz: AT-cut 5 <sup>rd</sup> Overtone 110~200 MHz: AT-cut 7 <sup>rd</sup> Overtone	3.2~30.0 MHz: AT - cut Fund. 27.0~70 MHz: AT- cut 3 <sup>rd</sup> Overtone 24.0~48.0 MHz: BT - cut Fund.	3.2~30.0 MHz: AT - cut Fund. 27.0~70 MHz: AT-cut 3 <sup>rd</sup> Overtone 24.0~48.0 MHz: BT - cut Fund.
Frequency Tolerance	SL-cut: ± 50 ppm at 25°C AT-cut: ±30 ppm at 25°C	AT-cut: ± 30 ppm at 25°C BT-cut: ± 50 ppm at 25°C	SL-cut: ±50 ppm at 25°C AT-cut: ±30 ppm at 25°C
Frequency Stability	SL-cut: ± 100 ppm over -10~+70°C AT-cut: ± 50 ppm over -10~+70°C	AT-cut: ±30ppm over -10~+70°C BT-cut: ±100ppm over -10~+70°C	SL-cut: ±100ppm over -10~+70°C AT-cut: ±50ppm over -10~+70°C
Shunt Capacitance (C <sub>0</sub> )	7pF Max.		
Load Capacitance (C <sub>L</sub> )	8 pF ~ 32 pF for Series		
Drive Level	100 μW Typical		
Operating Temperature Range	-10 ~ +70°C		
Storage Temperature Range	-40 ~ +85°C		
Aging	Less than ±3 ppm / year. (At 25±5°C)		

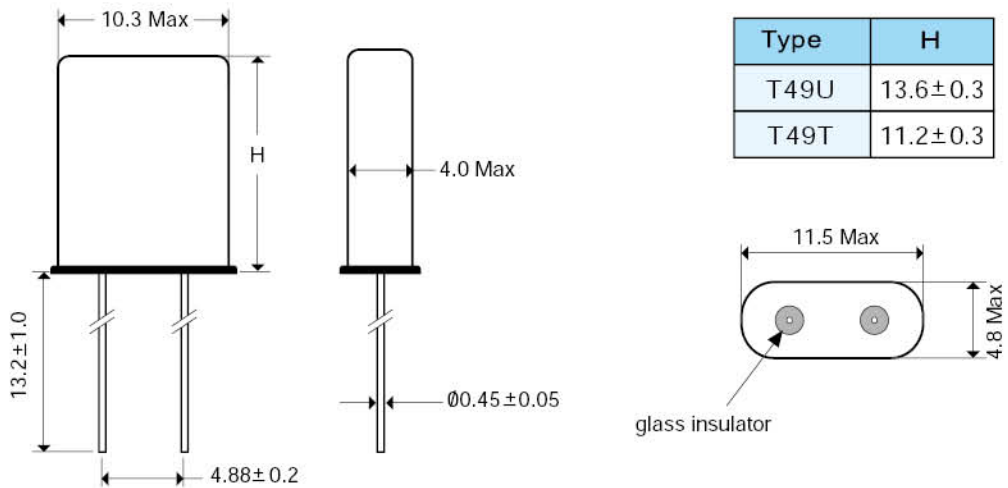
## Equivalent Series Resistance (ESR)

Model	Freq. MHz	Oscillation Mode	ESR Max.	Freq. MHz	Oscillation Mode	ESR Max.
AGX-T49U	1.0~1.3	SL cut	5000 Ω	7.01~10.0	AT cut Fund.	35 Ω
	2.01~3.0	AT cut Fund.	400 Ω	10.0~30.0	AT cut Fund.	25 Ω
	3.01~3.2	AT cut Fund.	200 Ω	30.01~45.0	AT cut Fund.	20 Ω
	3.21~3.5	AT cut Fund.	150 Ω	24.0~100.0	AT cut 3 <sup>rd</sup> O/T	40 Ω
	3.51~3.9	AT cut Fund.	120 Ω	80.0~160.0	AT cut 5 <sup>rd</sup> O/T	70 Ω
	3.91~5.0	AT cut Fund.	100 Ω	110.0~200.0	AT cut 7 <sup>rd</sup> O/T	120 Ω
	5.01~7.0	AT cut Fund.	50 Ω			
AGX-T49S / T49SS / T49S+	3.2~3.4	AT cut Fund.	300 Ω	13.0~30.0	AT cut Fund.	40 Ω
	3.5~4.0	AT cut Fund.	150 Ω	24.0~40.0	BT cut Fund.	40 Ω
	4.1~4.9	AT cut Fund.	120 Ω	40.1~48.0	BT cut Fund.	30 Ω
	5.0~5.9	AT cut Fund.	100 Ω	27.0~30.0	AT cut 3 <sup>rd</sup> O/T	150 Ω
	6.0~8.9	AT cut Fund.	80 Ω	30.1~50.0	AT cut 3 <sup>rd</sup> O/T	100 Ω
	9.0~9.9	AT cut Fund.	60 Ω	50.1~70.0	AT cut 3 <sup>rd</sup> O/T	80 Ω
AGX-TU1	1.0~1.2	SL cut Fund.	5K Ω	1.0~10.99	AT cut Fund.	60 Ω
	4.0~4.9	AT cut Fund.	150 Ω	11.0~12.9	AT cut Fund.	40 Ω
	5.0~5.9	AT cut Fund.	120 Ω	13.0~45.0	AT cut Fund.	25 Ω
	6.0~6.9	AT cut Fund.	100 Ω	30.0~50.0	AT cut 3 <sup>rd</sup> O/T	40 Ω
	7.0~7.9	AT cut Fund.	90 Ω	50.0~100.0	AT cut 3 <sup>rd</sup> O/T	50 Ω
	8.0~9.9	AT cut Fund.	80 Ω	80.0~200.0	AT cut 5 <sup>rd</sup> O/T	80 Ω
AGX-TU5	10.0~11.99	AT cut Fund.	60 Ω	90.0~135.0	AT cut 3 <sup>rd</sup> O/T	40 Ω
	12.0~14.99	AT cut Fund.	50 Ω	90.0~159.9	AT cut 5 <sup>rd</sup> O/T	100 Ω
	15.0~35.0	AT cut Fund.	30 Ω	160.0~200.0	AT cut 5 <sup>rd</sup> O/T	80 Ω
	35.0~89.99	AT cut 3 <sup>rd</sup> O/T	60 Ω			

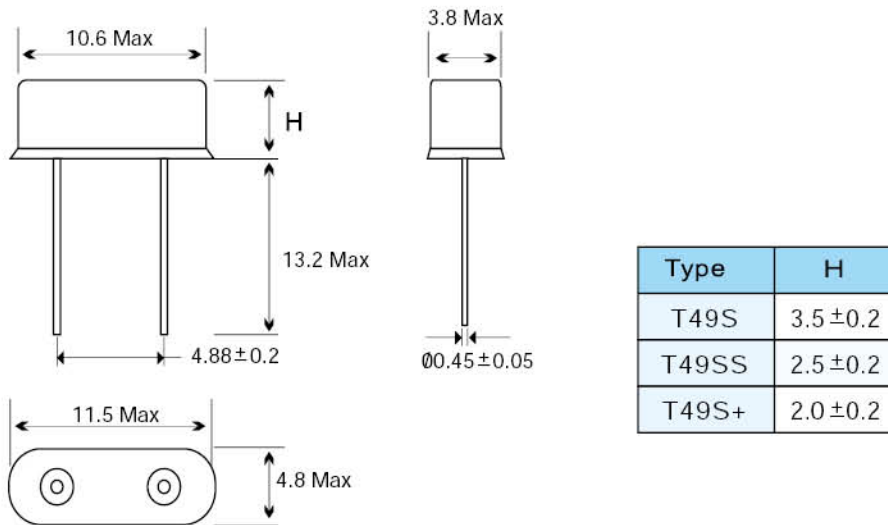


Dimension: (mm)

### AGX-T49U / T49T



### AGX-T49S / T49SS / T49S+



### AGX-TU1 / TU5

