



# ATS SMD TYPE SX-5

- ATS SMD type package
- AT or BT cut available
- Resistance weld seal
- Tape and reel available
- Tight tolerance / stability
- Pb-free and RoHS compliance

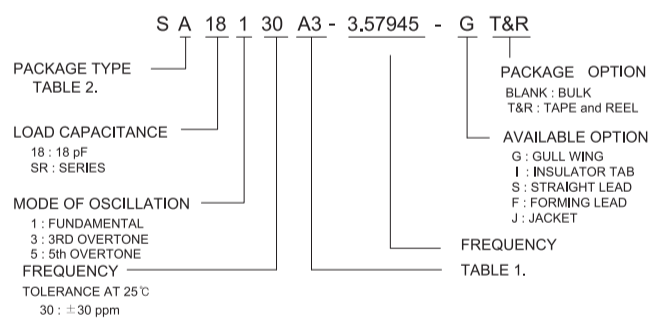
## ELECTRICAL SPECIFICATIONS

Frequency Range	3.2768 to 85.000MHz
Operating Temperature Range	-10 to +60 °C (STD), -20 to +70 °C, or specify
Storage Temperature Range	-40 to +85 °C
Frequency Tolerance (at 25 °C)	± 15, ± 30, ± 50ppm(STD), or specify
Frequency stability Over Operating Temperature Range	See Table1 in page 4 ± 30, ± 50(STD), ± 100ppm
Load Capacitance(CL)	18pF(STD), Custom CL≥10pF or Series Resonant
Drive Level	100 μW(1000 μW max.)
Shunt Capacitance(Co)	7.0pF max.
Aging (at 25 °C)	± 5.0ppm/year max.
Insulation Resistance	500MΩ min. at 100V <sub>DC</sub>

## EQUIVALENT SERIES RESISTANCE(ESR)

Frequency Range(MHz)	ESR(Ω MAX.)	Mode of Oscillation
3.2768 ~ 3.999	150	Fundamental / AT
4.000 ~ 4.999	120	Fundamental / AT
5.000 ~ 5.999	100	Fundamental / AT
6.000 ~ 7.999	90	Fundamental / AT
8.000 ~ 9.999	70	Fundamental / AT
10.000 ~ 11.999	60	Fundamental / AT
12.000 ~ 14.999	50	Fundamental / AT
15.000 ~ 19.999	40	Fundamental / AT
20.000 ~ 27.000	30	Fundamental / AT
27.000 ~ 32.999	50	Fundamental / BT
33.000 ~ 40.000	40	Fundamental / BT
24.576 ~ 47.999	80	3rd Overtone
48.000 ~ 85.000	60	3rd Overtone

## PART NUMBERING GUIDE



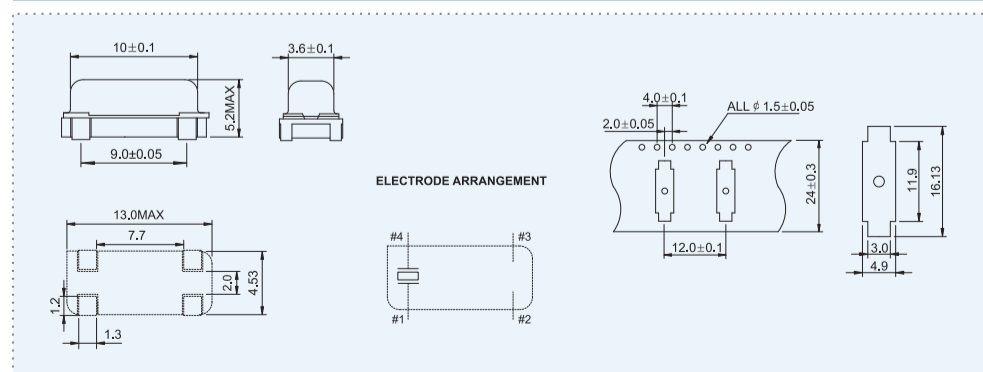
## TABLE 1.

Temp	Stability	±5	±7.5	±10	±15	±20	±30	±50	±100
		1	2	3	4	5	6	7	8
-10 ~ 60 °C	A	*	*	*	*	*	*	*	*
-20 ~ 60 °C	B	*	*	*	*	*	*	*	*
0 ~ 70 °C	C	*	*	*	*	*	*	*	*
-10 ~ 70 °C	D	*	*	*	*	*	*	*	*
-20 ~ 70 °C	E	*	*	*	*	*	*	*	*
-30 ~ 60 °C	F	*	*	*	*	*	*	*	*
-20 ~ 85 °C	G	*	*	*	*	*	*	*	*
-30 ~ 70 °C	H	*	*	*	*	*	*	*	*
-30 ~ 85 °C	I	*	*	*	*	*	*	*	*
-40 ~ 85 °C	J	*	*	*	*	*	*	*	*
-40 ~ 90 °C	K	*	*	*	*	*	*	*	*
-40 ~ 105 °C	L	*	*	*	*	*	*	*	*

## TABLE 2.

A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
HC-49/U	HC-49/T	ATS-25/U	ATS-49/U	ATS-51/U	UM-1	UM-4	UM-5	SX-1	SX-3	SX-5	SX-7	SX-6	SX-8	SX-32	SX-22

## MECHANICAL DIMENSIONS



(mm)

## LAND PATTERN (mm)

