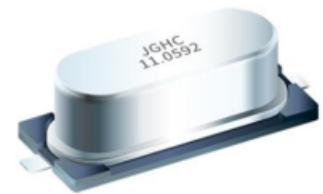


Metal Can Type Crystal HC-49S SMD 9AT Series



Features

- External dimensions: 11.4 x 4.8 x 3.8mm.
- Frequency range: 3.2MHz~64MHz.
- Surface mount type crystal units.
- A great number of standard frequencies.
- High frequency pullability and low equivalent series resistance.
- Highly mass production capability.
- Applications: PC, STB, LCDM and Cable Modem.



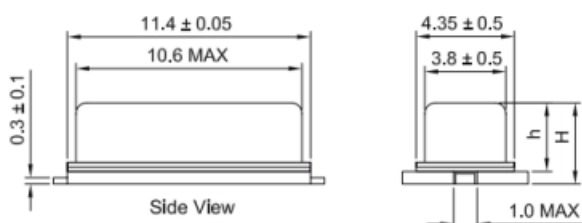
Crystals specifications

ITEMS/TYPE	9AT
Frequency Range	3.2~64 MHz
Frequency Tolerance (at 25 °C)	± 10 ppm, ± 20 ppm, or specify
Frequency Stability Over Operating Temperature Range	± 10 ppm, ± 20 ppm, or specify
Operating Temperature Range	-40~+85 °C, or specify
Shunt Capacitance (C0)	7 pF Max
Drive Level	1~ 500µW (50µW typical)
Load Capacitance	12pF, 20pF, or specify
Aging (at 25 °C)	± 3 ppm / year Max.
Storage Temperature Range	-40~+ 125 °C

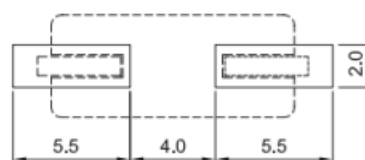
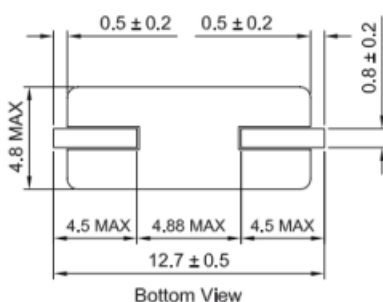
Equivalent Series Resistance(ESR)

Frequency Range	Mode	ESR.	Frequency Range	Mode	ESR.
3.200~3.500MHz	FuAT,Fundl	200 ΩMax.	16.001~19.999MHz	AT,Fundl	40 ΩMax
3.501~3.999MHz	uAT,Fundl	150 ΩMax.	20.000~29.999MHz	AT,Fundl	30 ΩMax
4.000~4.999MHz	uAT,Fundl	100 ΩMax.	30.000~48.000MHz	AT,Fundl	20 ΩMax
5.000~8.000MHz	AT,Fundl	80 ΩMax	30.000~48.000MHz	AT, 3RDI	80 ΩMax
8.001~16.000MHz	AT,Fundl	60 ΩMax	48.000~64000MHz	AT, 3RDI	70 ΩMax

Dimensions and patterns(unit:mm)



TYPE	H(SMD HIGH)	h(BODY HIGH)
A	3.8 ± 0.3	3.3 ± 0.3
B	3.0 ± 0.3	2.0 ± 0.3



Top View Suggested Layout