



外型	L1
AT38 (ø3x8)	8.3
AT39 (ø3x9)	9.3
AT310 (ø3x10)	10.3

⊕ PART NUMBER GUIDE 部件号示例 e.g. FTX20.945M20A8 (\*A8=AT38 A9=AT39 A10=)

	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率	Load Capacitance 负载电容
FT	X	20.945MHz	20

⊕ 1. PARAMETERS 技术参数

PARAMETER	参数	SPECIFICATION 规格
Frequency Range	频率范围 (MHz)	3.579MHz ~ 60MHz
Operation Mode	振动模式	See Table 2 见表2
Load Capacitance $C_L$	负载电容 (pF)	20pF std. 8 to 35pF series
Frequency Tolerance $F_L$	调整频差 (ppm)	$\pm 10\text{ppm} \sim \pm 50\text{ppm}$
Temperature Tolerance $T_L$	温度频差 (ppm)	$\pm 50\text{ppm}$ Std.
Operating Temperature $O_T$	工作温度 (°C)	-10°C to +60°C Std. (See
Storage Temperature $S_T$	储存温度 (°C)	-40°C ~ +85°C
Motional Resistance $R_2$	谐振电阻 ( $\Omega$ )	See Table 2 见表2
Shunt Capacitance $C_0$	静态电容 (pF)	7pF max
Drive Level $D_L$	激励电平 (mW)	0.01mW ~ 1mW
Insulation Resistance $I_2$	绝缘电阻 (M $\Omega$ )	500(DC50 $\pm$ 10V)min
Aging@25°C	年老化率 (ppm/y)	$\pm 5\text{ppm}$ max

⊙ All specifications subject change without notice. 规格变化, 如不另行通知

⊕ 2. OPERATION MODE AND RS 振动模式与谐振电阻

FREQUENCY \ TYPE	MODE	RS ( $\Omega$ max)
3.579MHz~3.699MHz	FUND	200
3.700MHz~3.999MHz	FUND	180
4.000MHz~4.099MHz	FUND	150
4.100MHz~4.999MHz	FUND	120
5.000MHz~5.999MHz	FUND	100
7.000MHz~9.999MHz	FUND	80
10.000MHz~11.999MHz	FUND	70
12.000MHz~13.999MHz	FUND	60
14.000MHz~15.999MHz	FUND	50
16.000MHz~30.000MHz	FUND	40
27.000MHz~60.000MHz	3 <sup>rd</sup> OVERTONE	100

AT CUTTING  
TEMPERATURE  
CHARACTERISTICS  
AT切频率温度特性图

