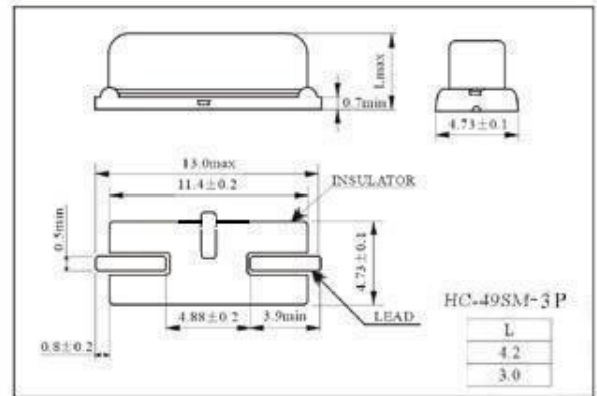
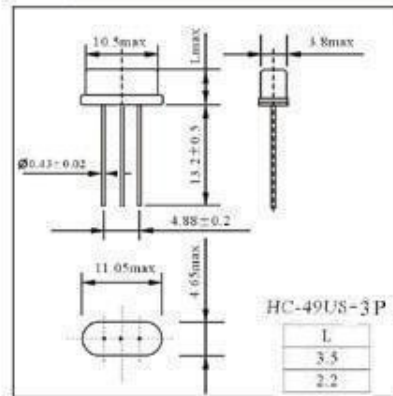


QUARTZ CRYSTAL RESONATOR
石英晶体谐振器
HC-49US-3P/HC-49SM-3P DIP/SMD TYPE
⊕ DIMENSIONS (Unit:mm) 外形尺寸

⊕ PART NUMBER GUIDE 部件号示例 e.g. FTX3.579M20S-3P (*S-3P=HC-49US-3P SM-3P=HC-49SM-3P)

	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率	Load Capacitance 负载电容	*Package Type 盒形
FT	X	3.579MHz	20	S-3P

⊕ 1.PARAMETERS 技术参数

PARAMETER	参数	SPECIFICATION 规格
Frequency Range	频率范围 (MHz)	3.0MHz~75.0MHz
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 available
Frequency Tolerance F_T	调整频差 (ppm)	$\pm 20\text{ppm}@25^\circ\text{C}$ Std. ($\pm 5\text{ppm}-\pm 100\text{ppm}$ available)
Temperature Tolerance T_T	温度频差 (ppm)	$\pm 20\text{ppm}$ Std. (See Table 3 见表3)
Operating Temperature T_O	工作温度 ($^\circ\text{C}$)	-10°C to $+60^\circ\text{C}$ Std. (See Table 3 见表3)
Storage Temperature T_S	储存温度 ($^\circ\text{C}$)	-40°C to $+85^\circ\text{C}$
Motional Resistance R_p	谐振电阻 (Ω)	See Table 2 见表2
Shunt Capacitance C_0	静态电容 (pF)	7pF max
Drive Level D_p	激励电平 (mW)	0.01mW~1mW
Insulation Resistance I_i	绝缘电阻 (M Ω)	500(DC500 $\pm 10\text{V}$) min
Aging@25 $^\circ\text{C}$	老化率 (ppm/y)	$\pm 5\text{ppm}$ max

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

⊕ 2. OPERATION MODE AND RS 振动模式与谐振电阻

FREQUENCY	TYPE	MODE	HC-49US-3P (Ω max)
3.0MHz~3.5MHz		FUND	300
3.5MHz~3.8MHz		FUND	150
3.8MHz~4.1MHz		FUND	120
4.1MHz~5.0MHz		FUND	100
5.0MHz~6.0MHz		FUND	80
6.0MHz~8.0MHz		FUND	70
8.0MHz~10.0MHz		FUND	60
10.0MHz~12.0MHz		FUND	50
12.0MHz~28.0MHz		FUND	40
28.0MHz~33.5MHz		FUND	50
26.0MHz~40.0MHz		3 rd OVERTONE	100
20.0MHz~40.0MHz		BT Found	40

⊕ 3. FREQUENCY-TEMPERATURE TOLERANCE 温度频差

• Recommended 推荐使用 ○ Available 可用

Cutting 切型	Temp. Range	Tolerance(ppm)					
		± 5	± 10	± 15	± 20	± 30	± 50
AT	0 $^\circ\text{C}$ ~+50 $^\circ\text{C}$	○	○	○	○	○	○
	-10 $^\circ\text{C}$ ~+60 $^\circ\text{C}$		○	○	○	●	○
	-20 $^\circ\text{C}$ ~+70 $^\circ\text{C}$		○	○	○	○	●
	-30 $^\circ\text{C}$ ~+80 $^\circ\text{C}$			○	○	○	○
	-40 $^\circ\text{C}$ ~+85 $^\circ\text{C}$					○	○
BT	Freq. vs temp. for cutting within a range of $\pm 80\text{ppm}-\pm 120\text{ppm}$ BT 切温度频差一般为 $\pm 80\text{ppm}-\pm 120\text{ppm}$						