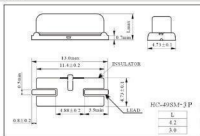
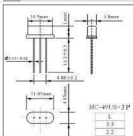


QUARTZ CRYSTAL RESONATOR
石英晶体谐振器
HC-49US-3P/HC-49SM-3P DIP/SMD TYPE
⊕ DIMENSIONS (Unit mm) 外形尺寸

⊕ PART NUMBER GUIDE 部件号示例

e.g. FTX3.579M205-3P (3P-3P-HC-49US-3P) SM-3P-HC-49SM-3P

FT	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率	Load Capacitance 负载电容	*Package Type 盒形
	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	调整偏差 (ppm)	$\pm 20\text{ppm}@25^\circ\text{C}$ Std. ($\pm 5\text{ppm}-\pm 100\text{ppm}$ available)
Temperature Tolerance T_T	温度偏差 (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 S_T	储存温度 ($^\circ\text{C}$)	-40°C to $+85^\circ\text{C}$
Motional Resistance R_m	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_r	激励电平 (mW)	0.01mW-1mW
Insulation Resistance I_r	绝缘电阻 (M Ω)	500 (DC 500 \pm 10V) min
Aging@25 $^\circ\text{C}$	老化比率 (ppm/y)	$\pm 5\text{ppm}$ max

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⊕ 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 Fund	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	$0^\circ\text{C}-+50^\circ\text{C}$	○	○	○	○	○	○
	$-10^\circ\text{C}-+60^\circ\text{C}$		○	○	○	●	○
	$-20^\circ\text{C}-+70^\circ\text{C}$		○	○	○	○	●
	$-30^\circ\text{C}-+80^\circ\text{C}$			○	○	○	○
BT	$-40^\circ\text{C}-+85^\circ\text{C}$					○	○
	Freq. vs temp. for cutting within a range of $\pm 80\text{ppm}-\pm 120\text{ppm}$. BT 切型温度频差一般为 $\pm 80\text{ppm}-\pm 120\text{ppm}$						