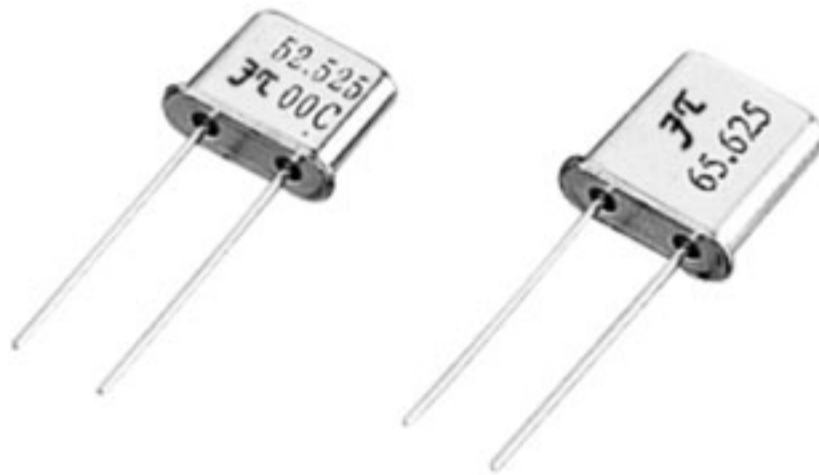


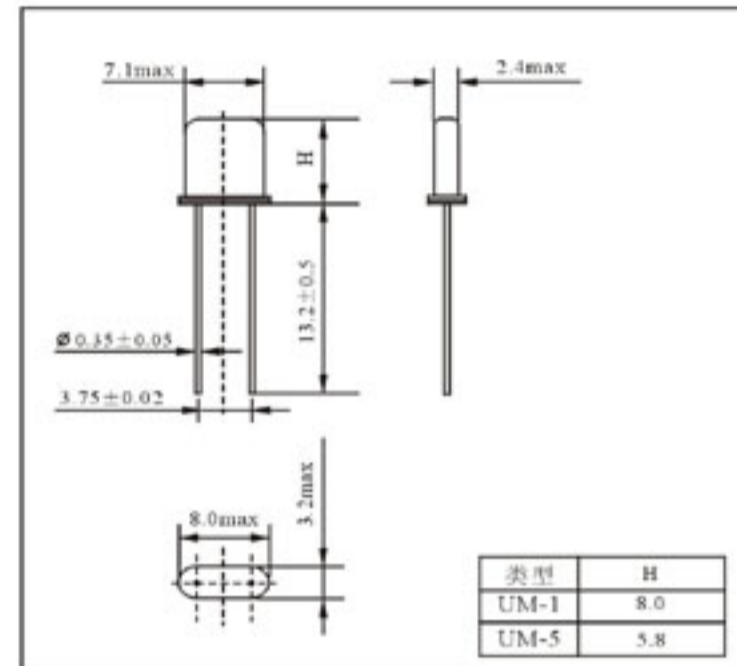
QUARTZ CRYSTAL RESONATOR

石英晶体谐振器

UM-1/UM-5 DIP TYPE



DIMENSIONS (Unit:mm) 外形尺寸



PART NUMBER GUIDE 部件号示例 e.g. FTX65.625M20U1 (*U-UM-1 U5UM-5)

	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	65.625MHz	20	U1

1.PARAMETERS 技术参数

PARAMETER	参数	SPECIFICATION 规格
Frequency Range	频率范围 (MHz)	8.0MHz~125.0MHz UM-1/8.0MHz~125.0MHz UM-5
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_L	调整频差 (ppm)	± 10 ppm@25°C Std. (± 5 ppm~ ± 100 ppm available)
Temperature Tolerance T_L	温度频差 (ppm)	± 10 ppm Std. (See Table 3 见表3)
Operating Temperature T_O	工作温度 (°C)	-20°C to +70°C Std. (See Table 3 见表3)
Storage Temperature S_T	储存温度 (°C)	-40°C to +85°C
Motional Resistance R_c	谐振电阻 (Ω)	See Table 2 见表2
Shunt Capacitance C_o	静态电容 (pF)	7pF max
Drive Level D_L	激励电平 (mW)	0.01mW~1mW
Insulation Resistance I_L	绝缘电阻 (M Ω)	500(DC500 ± 10 V) min
Aging@25°C	年老化率 (ppm/y)	± 5 ppm max

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2. OPERATION MODE AND RS 振动模式与谐振电阻

FREQUENCY	TYPE	MODE	UM-1 (Ω_{max})	UM-5 (Ω_{max})
10MHz~15MHz		Fund	40	
15MHz~20MHz		Fund	30	40
20MHz~25MHz		Fund	25	35
25MHz~30MHz		Fund	40/60	40/60
30MHz~75MHz		3 rd /5 th Overtone	60/70	60/70
75MHz~100MHz		3 rd /5 th Overtone	70/80	70/80
100MHz~125MHz		5 th Overtone	80	80

3. FREQUENCY-TEMPERATURE TOLERANCE 温度频差

• Recommended 推荐使用 ○ Available 可用

Cutting 切型	Temp Range	Tolerance(ppm)				
		± 5.0	± 10	± 15	± 20	± 30
AT	0°C~+50°C	○	○	○	○	○
	-10°C~+60°C		●	○	○	○
	-20°C~+70°C			○	●	○
	-30°C~+80°C				○	
	-40°C~+85°C					○