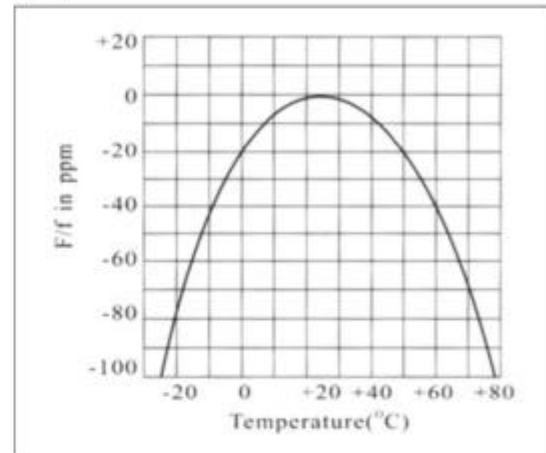
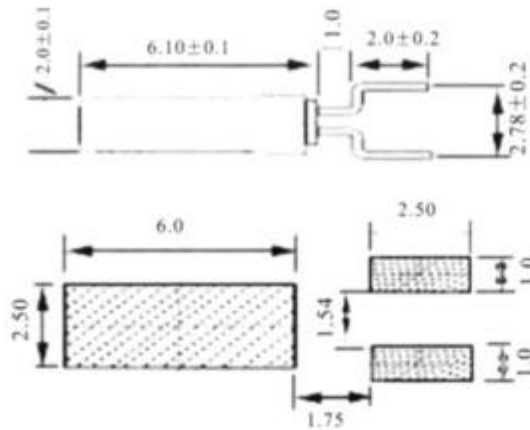


QUARTZ CRYSTAL RESONATOR
石英晶体谐振器
FM206 TYPE
⊕ DIMENSIONS (Unit: mm) 外形尺寸
⊕ TEMPERATURE CHARACTERISTICS

⊕ PART NUMBER GUIDE 部件号示例 e.g. FTX32.768K12.5FM206

	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率32.768KHz)	Load Capacitance 负载电容	*Package Type 盒形
FT	X	32.768K	12.5	FM206

⊕ PARAMETERS 技术参数

ITEM	SYMBOL	SPECIFICATIONS	REMARKS
Nominal Frequency 标称频率	f	32.000KHz to 120.000KHz 192KHz	Please refer to frequency list below
Temperature Range 温度范围	Storage Temp. 储存温度	T _{STO}	-20°C to +70°C
	Operating Temp. 工作温度	T _{OPR}	-10°C to +60°C
Maximum Drive Level 测试激励电平	GL	1.0 μW max	
Frequency Tolerance(Standard) 调整频差	Δf/f	+50×10 ⁻⁶ ± 100×10 ⁻⁶	T _a =+25°C DL=0.1 μW
Temperature Coefficient(Frequency) 二次温度曲线系数	a	-0.04×10 ⁻⁷ /°C max	
Load Capacitance 负载电容	C _L	12.5pF Std. 6pF to ∞	Please specify
Series Resistance 谐振电阻	R _s	32KHz≤f<38KHz: 50KΩ max 38KHz≤f<50KHz: 30KΩ max 50KHz≤f<74KHz: 25KΩ max 74KHz≤f≤100KHz: 22KΩ max 100KHz<f≤120KHz: 15KΩ max 192KHz: 10KΩ max	
Motional Capacitance 动态电容	C ₁	3.0fF max	
Shunt Capacitance 静态电容	C ₀	1.5pF max	
Insulation Resistance 绝缘电阻	IR	500MΩ min	
Aging 老化率	Fa	±5×10 ⁻⁶ / year max	T _a =+25°C ±3°C (First Year)

⊕ Series Resistance 谐振电阻

Type	Φ3×8 Φ2×6												Φ1.5×5				
Freq.	26.6667	32.7680	36.8640	38.4000	44.7340	48.0000	75.0000	77.5030	76.8000	96.0000	153.6000	307.2000	38.4000	50.0000	76.8000	77.5030	192.0000
C _L	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Value	10.0 11.0	10.6	13.5	10.0	10.0	15.0	9.5 20.0	10.0 20.0	6.0 10.0 11.0	6.0 8.4 11.0	12.5 11.0	11.0	11.0	9.0	11.0	10.0	11.0