

## 3.2x1.5 TUNING FORK(SMD)

### Part Number Guide

T-FF.FFFK-LC-FT-OT-ESR-TR-S

T (Type型号) : HC=3.2x1.5 Tuning Fork(SMD)

F (Frequency标称频率) : 5 digits of Frequency, e.g. 32.768K

LC (Load Capacitance负载电容) : 12.5=12.5pF 00=series, etc

FT (Frequency Tolerance调整频率) : 30=±30 ppm, etc

OT (Operating Temperature工作温度) : 1050=-10°C to +60°C 4085=-40°C to +85°C, etc

ESR (Equivalent Series Resistance等效阻抗)

TR (Tape and Reel编带)

S (Special Requirement特殊要求)



Pb  
Free

RoHS Compliant  
Directive 2002/95/EC

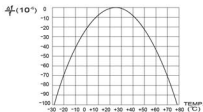
### Electrical Specifications 电气参数

型号	Holder Type	Tuning Fork 308(SMD)
频率	Frequency	32.768kHz
调整频率	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	±20ppm to ±50ppm
频率温度系数	Temperature coefficient	-4.0 × 10 <sup>-4</sup> /°C <sup>2</sup> Max.
工作温度范围	Operating Temperature Range	-10°C ~ +60°C to -40°C ~ +85°C
老化	Aging (at 25°C)	±3ppm/year Maximum
保存温度范围	Storage Temperature Range	-55°C to +125°C
激励功率	Drive Level	0.1μW Maximum
静态电容	Shunt Capacitance(C0)	1.2pF Typ.
动态电容	Motional capacitance (C1)	3.4fF Typ.
绝缘阻抗	Insulation Resistance (Ra)	500 Megaohms Minimum at D.C. 100V
负载电容	Load Capacitance (CL)	Suggested by customer

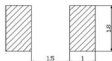
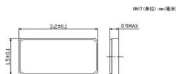
### Equivalent Series Resistance and Mode of Operation 等效阻抗和振荡模式

Frequency Range 频率范围	ESR (Ω) 等效阻抗	Mode 振荡模式
32.768kHz	70KMax	Fundamental

### Frequency vs. Temperature Curve 频率温度曲线



### Mechanical Dimensions 外型尺寸



suggested solder and layout

### Reflow Condition 回流焊条件

