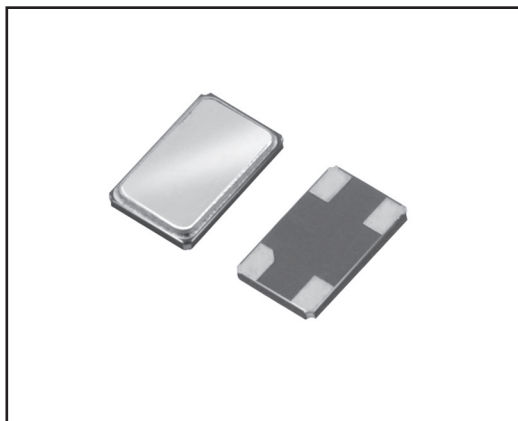


# 4x2.5 SMD Crystal



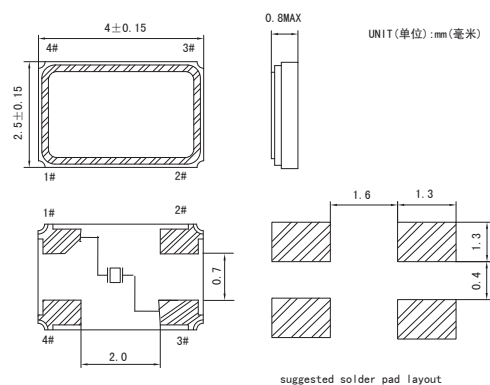
## Part Number Guide

T (Type型号): J=4×2.5SMD 4pads  
M (Mode of Operation 振荡模式): F=Fundamental  
F (Frequency 标称频率)  
LC (Load Capacitance 负载电容): 20=20pf 00=series, etc  
FT (Frequency Tolerance 调整频差): 30=+/-30 PPM, etc  
FD (Frequency Drift 频率稳定性): 50=+/-50 ppm, etc  
OT (Operating Temperature 工作温度): 1060=-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)

## Electrical Specifications 电气参数

型号	Holder Type	4x2.5mm Ceramic Surface Mount
频率范围	Frequency Range	12MHz to 50MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	$\pm 10$ ppm to $\pm 100$ ppm
温度频差	Frequency Drift	$\pm 10$ ppm to $\pm 100$ ppm
工作温度范围	Operating Temperature Range	-10°C - +60°C to -40°C - +85°C
储存温度范围	Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
老化	Aging (25°C)	$\pm 5$ ppm/ year Maximum
静电容	Shunt Capacitance (C0)	7pF maximum
激励功率	Drive Level	100uW Typical
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C.100V
负载电容	Load Capacitance (CL)	Suggested by customer

## Mechanical Dimensions 外型尺寸



Note) #2, #4 is connected with a cover  
(Please connect with a GND or a power supply)

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

Frequency Range 频率范围	ESR ( $\Omega$ ) 等效阻抗	Mode 振荡模式
12.000-16.000MHz	80 $\Omega$ max	Fundamental
16.000-20.000MHz	60 $\Omega$ max	Fundamental
20.000-24.000MHz	50 $\Omega$ max	Fundamental
24.000-50.000MHz	40 $\Omega$ max	Fundamental