

## CRYSTAS 石英晶振

## SMD2520 系列

## FEATURES

- High precision characteristics covering up to wide frequency range;
- Higher frequency stability and reliability;
- Excellent for reducing EMI effect;
- The best choice of Bluetooth, wireless communication set, DSC, PDA, mobile phone and USB interface card;
- RoHS Compliant /Pb Free.

## 特 征

- 高精度特性，可覆盖宽频率范围；
- 更高的频率稳定性和可靠性；
- 具有良好的电磁干扰效果；
- 蓝牙、无线通讯设备、数码相机、掌上电脑、手机和 USB 接口卡的最佳选择；
- 符合 RoHS 标准/无铅。

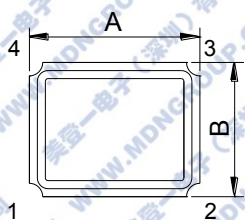
## CRYSTALS SPECIFICATIONS

ITEMS (项目)	PARAMETERS (规格说明)
Frequency Range	12~30MHz
Drive Level	10 $\mu$ W (100 $\mu$ W Max)
Frequency Tolerance( at 25 $^{\circ}$ C)	$\pm$ 10ppm, $\pm$ 30ppm, or specify
Frequency Stability Over Operating Temperature Range	$\pm$ 10ppm, $\pm$ 30ppm, or specify
Operating Temperature Range	-10~+70 $^{\circ}$ C, or specify
Shunt Capacitance(C0)	3pF Max.
Load Capacitance	8pF, 10pF, 12pF, or specify
Aging(at 25 $^{\circ}$ C)	$\pm$ 3ppm/year Max, or specify
Storage Temperature Range	-40~+85 $^{\circ}$ C

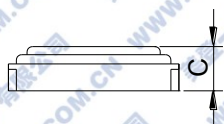
## Equivalent Series Resistance(ESR)

	Fundamental
12~13MHz	150 $\Omega$ Max
14~24MHz	100 $\Omega$ Max
24~30MHz	80 $\Omega$ Max

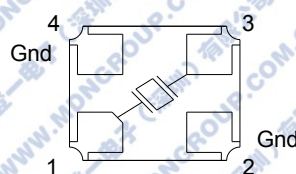
## DIMENSIONS(Unit:mm) AND SHAPES



A	2.5 $\pm$ 0.10	E	0.7 $\pm$ 0.10
B	2.0 $\pm$ 0.10	F	0.9 $\pm$ 0.10
C	0.55 Max	G	0.8 $\pm$ 0.10
D	0.65 $\pm$ 0.10	H	



Top View Crystal Connection



Top View Suggested Layout

