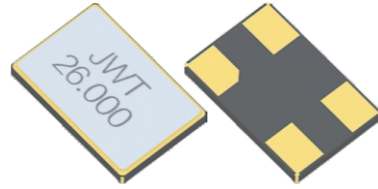


■特点 Features

标准的 2.5 x 2.0 x 0.55 mm 陶瓷封装表面贴装形式  
小公差及高稳定性  
适应自动装配的8MM宽度的编带包装  
包装：每卷1000/2000/3000PCS

Typical 2.5 x 2.0 x 0.55 mm Ceramic SMD package  
Tight tolerance and Stability  
8mm width Tape&Reel package for automatic assembly  
Packing: Tape & Reel, 1000/2000/3000 pcs per Reel



■标准规格 Electronic Specification

型号 Type	SMD2520
频率范围 Frequency Range	12,000 ~ 54,000MHz
振荡模式 Oscillator Mode	Fundamental(AT cut) 基频(AT切)
调整频差 Frequency Tolerance(at25°C)	±10ppm, ±20ppm, ±30ppm
温度频差 Frequency Stability	具体见表2
工作温度 Operating Temperature Range	-40°C ~ 125°C
贮存温度 Storage Temperature Range	-55°C ~ 125°C
负载电容 Load Capacitance	Custom design
激励电平 Drive Level	10µW Typical (300µW max)
静态电容 Shunt Capacitance	5pF max
老化率 Aging	ΔF/F:±3PPM/year(max)

■等效电阻 Equivalent Series Resistance(E.S.R.)

频率范围 Frequency Range	盒型 Hold Type	振荡模式 Mode	等效电阻 E.S.R.	频率范围 Frequency Range	盒型 Hold Type	振荡模式 Mode	等效电阻 E.S.R.
12,000 ~ 15,999MHz	SMD	AT,Fund	150ΩMax.	19,000 ~ 29,999MHz	SMD	AT,Fund	80ΩMax.
16,000 ~ 18,999MHz	SMD	AT,Fund	100ΩMax.	30,000 ~ 54,000MHz	SMD	AT,Fund	60ΩMax.

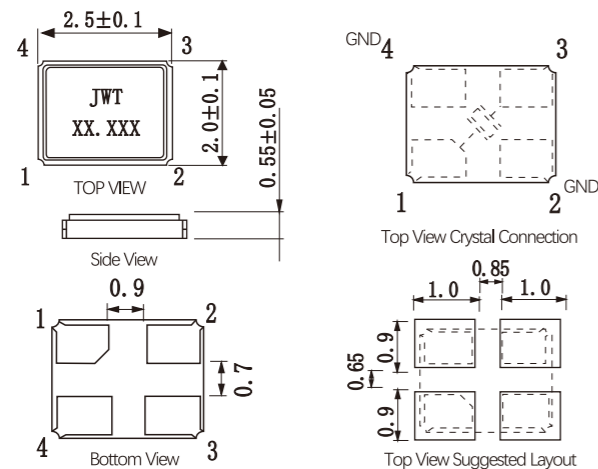
Table 1

■温度频差和工作温度范围 Frequency Stability Vs Operating Temperature range

Temp.(°C)\ppm	±5	±10	±15	±20	±25	±30	±50
-10 to 60°C	△	○	○	○	○	○	○
-20 to 70°C	△	○	○	○	○	○	○
-40 to 85°C			△	○	○	○	○
-40 to 125°C						△	○

Table 2

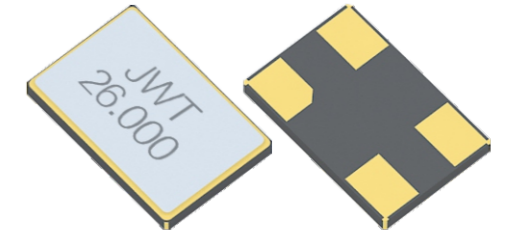
■外型尺寸 Outline Dimensions(Unit:mm)



■特点 Features

标准的 3.2 x 2.5 x 0.7 mm 陶瓷封装表面贴装形式  
小公差及高稳定性  
适应自动装配的8MM宽度的编带包装  
包装：每卷1000/2000/3000PCS

Typical 3.2 x 2.5 x 0.8 mm Ceramic SMD package  
Tight tolerance and Stability  
8mm width Tape&Reel package for automatic assembly  
Packing: Tape & Reel, 1000/2000/3000 pcs per Reel



■标准规格 Electronic Specification

型号 Type	SMD3225
频率范围 Frequency Range	8,000 ~ 54,000MHz
振荡模式 Oscillator Mode	Fundamental(AT cut) 基频(AT切)
调整频差 Frequency Tolerance(at25°C)	±10ppm, ±20ppm, ±30ppm
温度频差 Frequency Stability	具体见表2
工作温度 Operating Temperature Range	-40°C ~ 125°C
贮存温度 Storage Temperature Range	-55°C ~ 125°C
负载电容 Load Capacitance	Custom design
激励电平 Drive Level	10µW Typical (300µW max)
静态电容 Shunt Capacitance	5pF max
老化率 Aging	ΔF/F:±3PPM/year(max)

■等效电阻 Equivalent Series Resistance(E.S.R.)

频率范围 Frequency Range	盒型 Hold Type	振荡模式 Mode	等效电阻 E.S.R.	频率范围 Frequency Range	盒型 Hold Type	振荡模式 Mode	等效电阻 E.S.R.
8,000 ~ 9,839MHz	SMD	AT,Fund	500ΩMax.	16,000 ~ 18,999MHz	SMD	AT,Fund	60ΩMax.
9,840 ~ 11,999MHz	SMD	AT,Fund	300ΩMax.	19,000 ~ 29,999MHz	SMD	AT,Fund	40ΩMax.
12,000 ~ 15,999MHz	SMD	AT,Fund	80ΩMax.	30,000 ~ 54,000MHz	SMD	AT,Fund	30ΩMax.

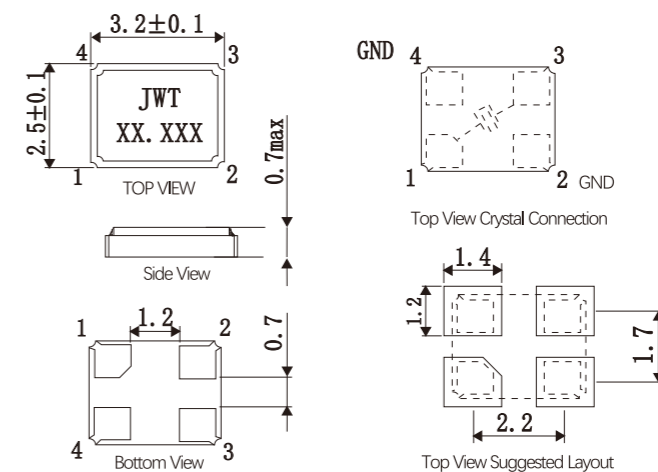
Table 1

■温度频差和工作温度范围 Frequency Stability Vs Operating Temperature range

Temp.(°C)\ppm	±5	±10	±15	±20	±25	±30	±50
-10 to 60°C	△	○	○	○	○	○	○
-20 to 70°C	△	○	○	○	○	○	○
-40 to 85°C			△	○	○	○	○
-40 to 125°C						△	○

Table 2

■外型尺寸 Outline Dimensions(Unit:mm)



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