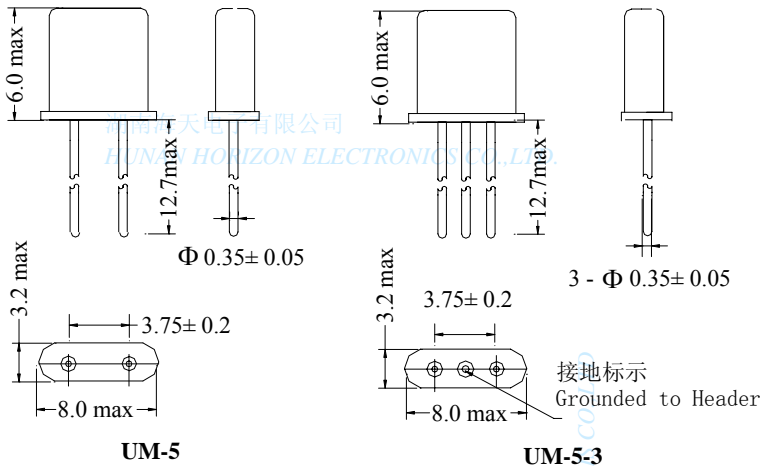
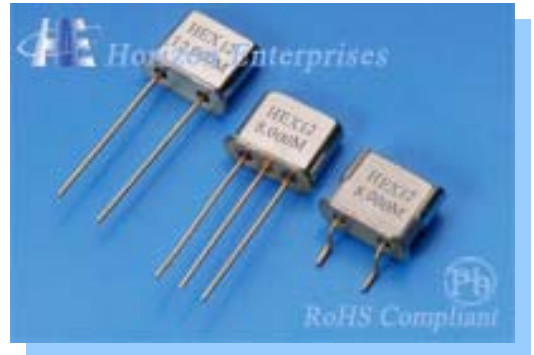


晶体谐振器 Crystals Resonators Unit  
 产品型号 HEX12-UM-5、UM-5-3、UM-5-SMD

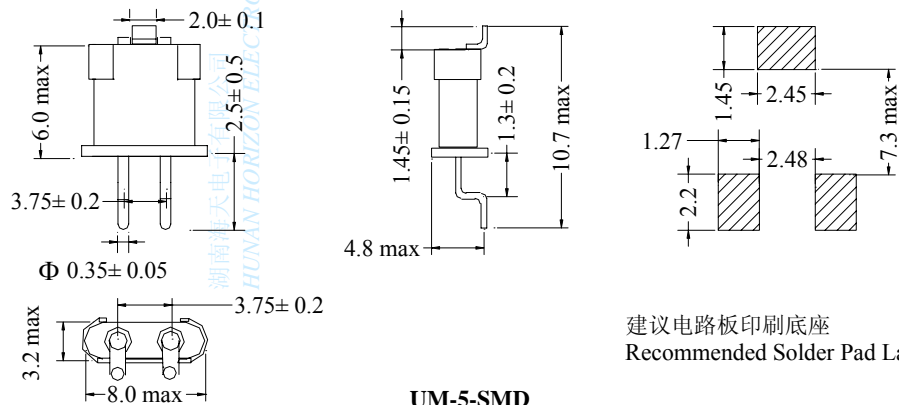
外形尺寸(单位:毫米)

Figure and Dimensions(Unit: mm)



UM-5

UM-5-3



UM-5-SMD

产品特征 Features

- 频率宽 Wide Frequency Range
- 精度高 High Precision Crystal

建议电路板印刷底座  
 Recommended Solder Pad Layout

产品规格 Specification

电性能参数 Parameter		规格 Specification
频率范围 Frequency Range		5.000~200.000 MHz
振动模式 Mode of Oscillation	基频 Fundamental	5.000~50.000 MHz
	三次泛音 3 <sup>rd</sup> Overtone	24.000~100.000 MHz
	五次泛音 5 <sup>th</sup> Overtone	70.000~125.000 MHz
	七次泛音 7 <sup>th</sup> Overtone	160.000~200.000 MHz
等效电阻(ESR) Equivalent Series Resistance	Fund.	30Ω max for 5.000 ~ 50.000 MHz
	3 <sup>rd</sup>	60Ω max for 24.000 ~ 100.000 MHz
	5 <sup>th</sup>	90Ω max for 70.000 ~ 125.000 MHz
	7 <sup>th</sup>	140Ω max for 160.000 ~ 200.000 MHz
工作温度 Operating Temperature		0°C~70°C ( See Options )
储存温度 Storage Temperature		-40°C~85°C
调整频差 Frequency Tolerance @ 25°C		±5 ppm~ ±50 ppm max ( See Options)
温度频差 Temperature Tolerance		±5 ppm~±50 ppm max ( See Options)
静态电容 Shunt Capacitance C <sub>0</sub>		7.0 pf max
负载电容 Load Capacitance C <sub>L</sub>		6 pf~ Series (Customer Specified)
激励电平 Drive Level		100 uW Typical ( 1mW max )
老化率 Ageing @ 25°C Per Year		±3 ppm~±5ppm
绝缘电阻 Insulation Resistance		500MΩ min .at 100V <sub>DC</sub> ±15V

**订购须知 Order Information**

**HEX12□-Frequency-C<sub>L</sub>-ESR-Mode-Freq.Tol.-Temp.Range-Stability-Packaging**

<b>HEX12□</b>	产品系列 Product Family UM-5 Series
	<ul style="list-style-type: none"> <li>■ A for UM-5 ( for STD )</li> <li>■ B for UM-5-3 ( for 3 Lead Base )</li> <li>■ C for UM-5-SMD ( for SMD Clip )</li> </ul>
<b>Frequency</b>	频率 Frequency( MHz)
<b>C<sub>L</sub></b>	负载 Load Capacitance or Series (pf)
<b>ESR</b>	等效电阻 (ESR) Equivalent Series Resistance \ R (Ω)
<b>Mode</b>	振荡模式 Mode of Oscillation
	<ul style="list-style-type: none"> <li>■ F for fund AT</li> <li>■ FB for fund BT</li> <li>■ 3OT for 3<sup>rd</sup> overtone</li> <li>■ X for custom value</li> </ul>
<b>Freq.Tol</b>	调整频差 Frequency Tolerance @ 25℃
	<ul style="list-style-type: none"> <li>■ H<sub>1</sub> for±5 ppm max</li> <li>■ H<sub>2</sub> for±10ppm max</li> <li>■ H<sub>3</sub> for±30ppm max</li> <li>■ X for custom value</li> </ul>
<b>Temp.Range</b>	工作温度 Operating Temperature
	<ul style="list-style-type: none"> <li>■ T<sub>0</sub> for-10℃~60℃</li> <li>■ T<sub>1</sub> for 0℃~70℃</li> <li>■ T<sub>2</sub> for -20℃~70℃</li> <li>■ T<sub>3</sub> for -40℃~85℃</li> <li>■ X for custom value</li> </ul>
<b>Stability</b>	温度频差 Temperature Tolerance
	<ul style="list-style-type: none"> <li>■ W<sub>1</sub> for±5 ppm max</li> <li>■ W<sub>2</sub> for±10ppm max</li> <li>■ W<sub>3</sub> for±30ppm max</li> <li>■ X for custom value</li> </ul>
<b>Packaging</b>	包装 Packaging
	<ul style="list-style-type: none"> <li>■ T for Tape &amp; Reel</li> <li>■ P for Plastic Tray</li> <li>■ B for Bulk</li> </ul>

订购举例： Example : HEX12A-20.000MHz-18-30R-F-H<sub>2</sub>-T<sub>2</sub>-W<sub>2</sub>-B

<b>HEX12A</b>	产品系列 Product Family UM-5
<b>20.000MHz</b>	频率 Frequency \ f <sub>0</sub> =20.000MHz
<b>18</b>	负载 Load Capacitance \ C <sub>L</sub> =18 pf
<b>30R</b>	等效电阻 Equivalent Series Resistance (ESR) \ R=30 Ω
<b>F</b>	AT 基频 Fundamental \ 切角 AT-cut F= AT Fund.
<b>H<sub>2</sub></b>	调整频差 Frequency Tolerance \ H <sub>2</sub> =±10 ppm
<b>T<sub>2</sub></b>	工作温度 Operating Temperature \ T <sub>2</sub> =-20℃~70℃
<b>W<sub>2</sub></b>	温度频差 Temperature Tolerance \ W <sub>2</sub> =±10 ppm
<b>B</b>	包装 Packaging for Bulk

[Http:// www.horizonxtal.com](http://www.horizonxtal.com)

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