## **Specification of Crystal Unit**



1     NDX PART NUMBER     NX2520SA-24.00000MH2-89       2     CHIPSET MAKER     NXP (PHILPS)       3     APPLICATION     Wireleas LAN       4     CHIPSET NAME     Sx05120, Syn06130       5     Type     NX2520SA       6     Electrical characteristics     100-10 fmax. (425 °C)       1     Nominal frequency(FF0)     24.0000MH2       2     Adjustment tolerance     100-10 fmax. (425 °C)       3     Adjustment tolerance (CI)     7.0 pF max.       6     Shurt Capacitance (CI)     7.0 pF max.       7     Measurement circuit     scircuit       7     Measurement circuit     scircuit       7     Measurement circuit     scircuit       7.1     Lead capacitance (CL)     10pF       7.2     Lead capacitance (CL)     10pF       7.3     Level of drive     scircuit       7.3     Level of drive     scircuit       7.4     Lead capacitance (CL)     Series       7.3     Level of drive     scircuit       7.4     Dimension     scircuit       7.5     Equivalence (CL)     Series       7.6     Level of drive     scircuit       7.7     Level of drive     scircuit       7.8     Dimension     scircuit </th <th>Spe</th> <th>cification of Crystal Unit</th> <th>Crystal Bridge to the Future</th>	Spe	cification of Crystal Unit	Crystal Bridge to the Future
2     CHIPSET MAKER     NXP (PHILIPS)       3     APPLICATION     Wireless LAN       4     CHIPSET NAME     Sysol6130       5     Type     NX2520SA       6     Electrical characteristics     Electrical characteristics       2     Overtione order     Eludrimential       2     Overtione order     Eludrimential       2     Overtione order     Eludrimential       6     Battrical characteristics     Eludrimential       6     Adjustment learance     ±10:10 <sup>4</sup> max. (±20 mm)       7     Measurement circuit     1000 max.       7     Measurement circuit     a circuit       7.1     Measurement circuit     a circuit       7.1.2     Load capacitance(CL)     10pF       7.1.3     Level of drive     10µW       7.2     Equivalent resistance measurement       7.3     Level of drive     10µW       8     Dimension			
3     APPLICATION     Wireless LAN       4     CHIPSET NAME     Sysol6120, Sysol6130       5     Type     N2520SA       6     Electrical characteristics     Electrical characteristics       6.1     Nominal frequency(F0)     24,000MHz       7.3     Overtore order     Fundamental       6.4     Tolerance over the temperature range     10-10° max. (+25 °C)       6.5     Strunt Capacitance (C0)     7.0 pF max.       7.1     Measurement circuit     π circuit       7.2     Frequency measurement     π circuit       7.1.1     Measurement circuit     π circuit       7.2     Frequency measurement     π circuit       7.1.2     Level of drive     10/W       7.2     Level of drive     10/W       8     Dimension     Image: Capacitance(CL)       7.3     Level of drive     10/W			
<ul> <li>CHIPSET NAME</li> <li>Sysolid 120, Sysolid 130</li> <li>Type</li> <li>NZS20SA</li> <li>Electrical characteristics</li> <li>Nominal frequency(F0)</li> <li>24,000MHz</li> <li>Overtone order</li> <li>10:10<sup>2</sup> max. (+25 • C)</li> <li>Shurt Capacitance (C1)</li> <li>Shurt Capacitance (C1)</li> <li>Frequency measurement</li> <li>Lad capacitance(C1)</li> <li>Toterance over the temperature shall be +25 °C.</li> <li>10:10<sup>2</sup> max. (+25 • C)</li> <li>Masurement circuit</li> <li>Frequency measurement</li> <li>Lad capacitance(C1)</li> <li>Toterance over the temperature shall be +25 °C.</li> <li>10:10<sup>2</sup> max. (+25 • C)</li> <li>Toterance over the temperature shall be +25 °C.</li> <li>Masurement circuit</li> <li>Frequency measurement</li> <li>Lad capacitance(C1)</li> <li>Toterance(C1)</li> <li>Tote</li></ul>	2	CHIPSET MAKER	NXP (PHILIPS)
<ul> <li>5 Type NX2520SA</li> <li>6 Electrical characteristics</li> <li>3 Adjustment tolerance over the temperature range</li> <li>4 Tolerance over the temperature range</li> <li>5 Equivalent resistance (R1)</li> <li>7 Measurement circuit</li> <li>7 Prequency measurement</li> <li>1.1 Measuring instrument</li> <li>7 a circuit</li> <li>1.2 Level of drive</li> <li>10µW</li> <li>8 Dimension</li> </ul>	3	APPLICATION	Wireless LAN
<ul> <li>Electrical characteristics</li> <li>Nominal frequency(F0)</li> <li>Questione order</li> <li>Fundamental</li> <li>Adjustment tolerance</li> <li>Tolerance over the temperature range</li> <li>Equivalent restance (R1)</li> <li>Shurt Capacitance (C0)</li> <li>Thus a strain the str</li></ul>	4	CHIPSET NAME	Sysol6120, Sysol6130
<ul> <li>Nominal frequency(F0)</li> <li>24.000MHz</li> <li>Coverione order</li> <li>Fundamental</li> <li>Adjustment tolerance</li> <li>Fundamental</li> <li>Fundamental</li></ul>	5	Туре	NX2520SA
<ul> <li>6.2 Overlone order</li> <li>6.3 Adjustment tolerance</li> <li>6.4 Tolerance over the temperature range</li> <li>6.5 Equivalent resistance (R1)</li> <li>6.5 Shurt Capacitance (C0)</li> <li>7.0 Massurement circuit</li> <li>7.1 Measuring instrument</li> <li>7.1 A leaving instrument</li> <li>7.2 Equivalent resistance (C1)</li> <li>7.1.3 Level of drive</li> <li>7.2 Equivalent resistance (C1)</li> <li>8 Dimension</li> </ul>	6		
6.3       Adjustment tolerance       ±10:10 <sup>4</sup> max. (+25 °C)         6.4       Tolerance over the temperature range       ±10:10 <sup>4</sup> max. (+20 − 70 °C) The reference temperature shall be +25 °C.         6.5       Equivalent resistance (R1)       100:1 max.         7       Measurement circuit       7.0 pF max.         7.11       Measurement circuit       7.0 pF max.         7.11       Measurement circuit       7.0 pF         7.12       Lead capacitance(CL)       10µW         7.13       Level of drive       10µW         7.2       Equivalent resistance measurement       ± circuit         7.13       Level of drive       10µW         8       Dimension       10 <sup>2</sup> µ µ µ         8       Dimension       10 <sup>2</sup> µ µ µ         8       Dimension       10 <sup>2</sup> µ µ µ         9       10 <sup>2</sup> µ µ µ µ µ       10 <sup>2</sup> µ µ µ µ         10 <sup>2</sup> µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ	6.1	Nominal frequency(F0)	24.000MHz
6.3       Adjustment tolerance       ±10:10 <sup>4</sup> max. (+25 °C)         6.4       Tolerance over the temperature range       ±10:10 <sup>4</sup> max. (+20 − 70 °C) The reference temperature shall be +25 °C.         6.5       Equivalent resistance (R1)       100:1 max.         7       Measurement circuit       7.0 pF max.         7.11       Measurement circuit       7.0 pF max.         7.11       Measurement circuit       7.0 pF         7.12       Lead capacitance(CL)       10µW         7.13       Level of drive       10µW         7.2       Equivalent resistance measurement       ± circuit         7.13       Level of drive       10µW         8       Dimension       10 <sup>2</sup> µ µ µ         8       Dimension       10 <sup>2</sup> µ µ µ         8       Dimension       10 <sup>2</sup> µ µ µ         9       10 <sup>2</sup> µ µ µ µ µ       10 <sup>2</sup> µ µ µ µ         10 <sup>2</sup> µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ µ	6.2	Overtone order	Fundamental
<ul> <li>6.4 Tolerance over the temperature range +10x10<sup>6</sup> max. (-20-+70 °C) The reference temperature shall be +25 °C.</li> <li>6.5 Equivalent resistance (C0) 7.0 pF max.</li> <li>6.7 Maximum Drive Level 100µW max.</li> <li>7 Measurement circuit</li> <li>7.1 Measuring instrument x circuit</li> <li>7.1.1 Measuring instrument x circuit</li> <li>7.2 Equivalent resistance (CL) 10pF</li> <li>7.3 Level of drive 10µW</li> <li>8 Dimension</li> </ul>			
<ul> <li>6.5 Equivalent resistance (R1) 1000 max.</li> <li>6.6 Shunt Capacitance (C0) 7.0 pF max.</li> <li>6.7 Maximum Drive Level 100µW max.</li> <li>7 Measurement circuit</li> <li>7.1 Measuring instrument n circuit</li> <li>7.1 Measuring instrument n circuit</li> <li>7.2 Equivalent resistance measurement</li> <li>7.1 Measuring instrument n circuit</li> <li>7.2 Equivalent resistance measurement</li> <li>7.2 Equivalent resistance measurement</li> <li>7.3 Measuring instrument n circuit</li> <li>7.4 Measuring instrument n circuit</li> <li>7.5 Equivalent resistance measurement</li> <li>7.1 Measuring instrument n circuit</li> <li>7.2 Equivalent resistance measurement</li> <li>7.3 Level of drive 10µW</li> <li>8 Dimension</li> </ul>			
<ul> <li>6.6 Shurt Capacitance (C0)</li> <li>7.0 pF max</li> <li>6.7 Maximum Drive Level</li> <li>100μW max.</li> <li>7 Measurement circuit</li> <li>7.1 Measuring instrument</li> <li>7.1 Measuring instrument</li> <li>7.1 Measuring instrument</li> <li>7.2 Equivalent resistance measurement</li> <li>7.2 Equivalent resistance measurement</li> <li>7.3 Level of drive</li> <li>10μW</li> <li>8 Dimension</li> </ul>			
<ul> <li>6.7 Maximum Drive Level</li> <li>100µW max:</li> <li>7 Measurement circuit</li> <li>9. Frequency measurement</li> <li>11.1 Measuring instrument</li> <li>12.1 Coad capacitance(CL)</li> <li>10pF</li> <li>13.1 Level of drive</li> <li>10µW</li> <li>2.1 Measuring instrument</li> <li>10µW</li> <li>3 Level of drive</li> <li>10µW</li> <li>3 Dimension</li> </ul>			
<complex-block><ul> <li>Measurement circuit</li> <li>Frequency measurement</li> <li>Measuring instrument resistance measurement</li> <li>Lead capacitance(CL)</li> <li>Series</li> <li>Lead capacitance(CL)</li> <li>Series</li> <li>Lead capacitance(CL)</li> <li>Series</li> <li>Lead capacitance(CL)</li> <li>TopWith</li> <li>Top</li></ul></complex-block>	6.6	Shunt Capacitance (C0)	7.0 pF max.
<ul> <li>7.2 Frequency measurement</li> <li>7.1.1 Measuring instrument π circuit</li> <li>7.1.2 Level of drive 10μW</li> <li>7.2 Equivalent resistance measurement</li> <li>7.2.1 Level of drive π circuit</li> <li>7.2.2 Load capacitance(CL) Series</li> <li>7.2.3 Level of drive 10μW</li> <li>8 Dimension</li> </ul>	6.7	Maximum Drive Level	100μW max.
7.1.1       Measuring instrument       π circuit         7.1.2       Load capacitance(CL)       10pF         7.1.3       Level of drive       10µW         7.2.1       Measuring instrument       m circuit         7.2.2       Load capacitance(CL)       Series         7.2.3       Level of drive       10µW         8       Dimension       10µW         8       Dimension       10µW         9       Unit of the series       10µW         9 <td< td=""><td>7</td><td>Measurement circuit</td><td></td></td<>	7	Measurement circuit	
<ul> <li>1.12 Load capacitance(CL)</li> <li>10pF</li> <li>1.13 Level of drive</li> <li>10µW</li> <li>2.14 Measuring instrument</li> <li>1.2 Load capacitance(CL)</li> <li>3 Dimension</li> <li>3 Dimension</li> <li>3 Dimension</li> <li>10µW</li> <li>10µW<!--</td--><td>7.2</td><td>Frequency measurement</td><td></td></li></ul>	7.2	Frequency measurement	
<ul> <li>1.12 Load capacitance(CL)</li> <li>10pF</li> <li>1.13 Level of drive</li> <li>10µW</li> <li>2.14 Measuring instrument</li> <li>1.2 Load capacitance(CL)</li> <li>3 Dimension</li> <li>3 Dimension</li> <li>3 Dimension</li> <li>10µW</li> <li>10µW<!--</td--><td>7.1.1</td><td></td><td><math>\pi</math> circuit</td></li></ul>	7.1.1		$\pi$ circuit
<ul> <li>1.13 Level of drive</li> <li>10μW</li> <li>2.2 Equivalent resistance measurement</li> <li>2.1 Measuring instrument</li> <li>3 cricuit</li> <li>3 Dimension</li> <li>3 Dimension</li> <li>0 U U U U U U U U U U U U U U U U U U U</li></ul>			10pE
<ul> <li>12.1 Measuring instrument</li> <li>12.2 Load capacitance(CL)</li> <li>23.2 Load of driv</li> <li>10μW</li> <li>3 Dimension</li> </ul>			
<ul> <li>1.2.1 Measuring instrument π circuit</li> <li>2.2.2 Load capacitance(CL)</li> <li>3.2.3 Level of drive</li> <li>10μW</li> <li>3 Dimension</li> </ul>			ΤΟμνν
7.2.1 Load capacitance(CL)       Series         7.2.3 Level of drive       10μW         3 Dimension			
10μW			
2 Dimension	7.2.2	Load capacitance(CL)	Series
25 ± 0.1	7.2.3	Level of drive	10µW
		$\frac{1}{90}$	Base Alumina Ceramics Terminal Tungsten Metalize (Au plating on Ni pre plating) (Au plating on Ni pre plating) (TOP VIEW] PIN CONNECTION #4 #1 TERMINAL #1,#3X1al
		<u>← 1.2</u>	

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