

N-NZ3225SD

Low Phase Noise Type

Application

- For High-quality-audio, Smartphone, Tablet computers, Wireless module, Notebook PC and DSC

Features

- Low phase noise make this product ideal for High quality audio.
- Compact and light. Dimensions : 3.2 x 2.5 x 0.9 mm, weight : 0.02 g.
- Wide frequency range: 1.5 to 80 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.

Pb Free

Absolute maximum rating
 Supply voltage (VCC) -0.6 to +6.0 V
 Storage temperature range -55 to +125 °C

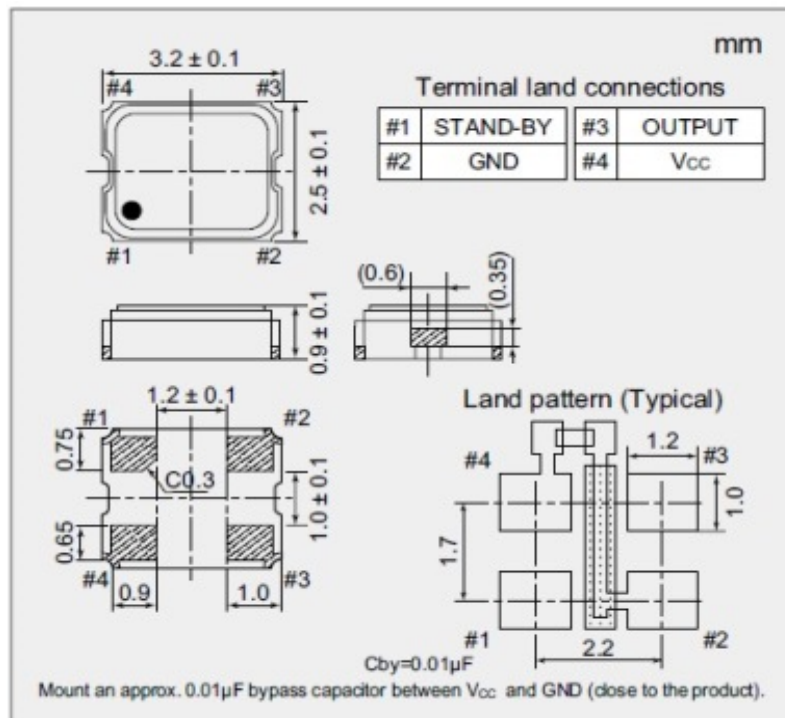
Specifications

| Item | Model | N-NZ3225SD | | |
|-----------------------------|----------------------|---|------------|------------|
| Output Level | | CMOS | | |
| Nominal Frequency Range | (MHz) | 1.5 to 80 | | |
| Overall Frequency Tolerance | ($\times 10^{-6}$) | ± 50 | ± 30 | ± 20 |
| Operating Temperature Range | (°C) | -40 to +85 | -10 to +70 | -10 to +60 |
| Supply Voltage | (V) | +1.8 to +3.3 | | |
| Current Consumption Max | During Operation | +25°C | (mA) | |
| | During Standby | +25°C | (μA) | |
| VOL Max. / VOH Min. | (V) | 0.1V _{CC} / 0.9V _{CC} | | |
| Tr Max. / Tf Max. | (ns) | 6 / 6 | | |
| Symmetry Min. to Max. | (%) | 45 to 55 | | |
| Load (C _L) Max | (pF) | 15 | | |
| Start-up Time Max. | (ms) | 4 | | |
| Standby Function | | Available (Three-state) | | |

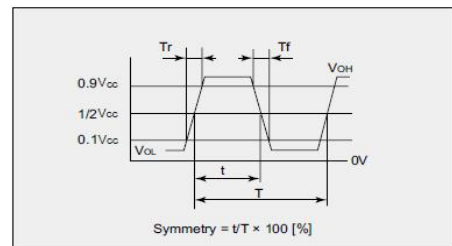
Characteristics

| +1.8V, +25 °C | Fout±1 kHz (Typ.) | | F=20MHz | F=40MHz | F=60MHz | F=80MHz |
|-----------------------|---------------------|--|---------|---------|---------|---------|
| | Fout±100 kHz (Typ.) | | -147 | -143 | -139 | -136 |
| +2.5 to +3.3V, +25 °C | Fout±1 kHz (Typ.) | | -151 | -148 | -142 | -136 |
| | Fout±100 kHz (Typ.) | | -157 | -156 | -156 | -154 |

Dimensions



Output Waveform <CMOS>



Standby Function

| #1 Input | #3 Output |
|---|-----------------------|
| Level H (0.7 VCC ≤ VIH ≤ VCC) or OPEN is selected. | Oscillation output ON |
| Level L (VIL ≤ 0.3 VCC) is selected. | High impedance |

■ Specification Number

| Overall Frequency Tolerance | Operating Temperature Range(°C) | Supply Voltage (V) | | | |
|-----------------------------|---------------------------------|--------------------|-----------|-----------|-----------|
| | | +1.8±0.18 | +2.5±0.25 | +2.8±0.28 | +3.3±0.33 |
| ±50 × 10 ⁻⁶ | -40 to +85 | NSC5032A | NSC5032B | NSC5032C | NSC5032D |
| ±30 × 10 ⁻⁶ | -10 to +70 | NSC5034A | NSC5034B | NSC5034C | NSC5034D |
| ±20 × 10 ⁻⁶ | -10 to +60 | NSC5035A | NSC5035B | NSC5035C | NSC5035D |

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.