

Crystal Clock Oscillator

NZ2520SF

Ultralow Power Type

Application

- For Portable equipment (ex. Mobile Phone, Digital Media Player, PND, Notebook PC, etc)

Features

- Ultralow power-driven (Min. +0.8V) crystal clock oscillator, ideal for mobile devices.
- Compact and light. Dimensions : 2.5 x 2.0 x 0.9 mm, weight : 0.02 g.
- Wide frequency range : 1.5 to 50MHz
- Taped units enable automatic mounting and IR Reflow (lead free) is possible.
- Lead-free.



Pb Free

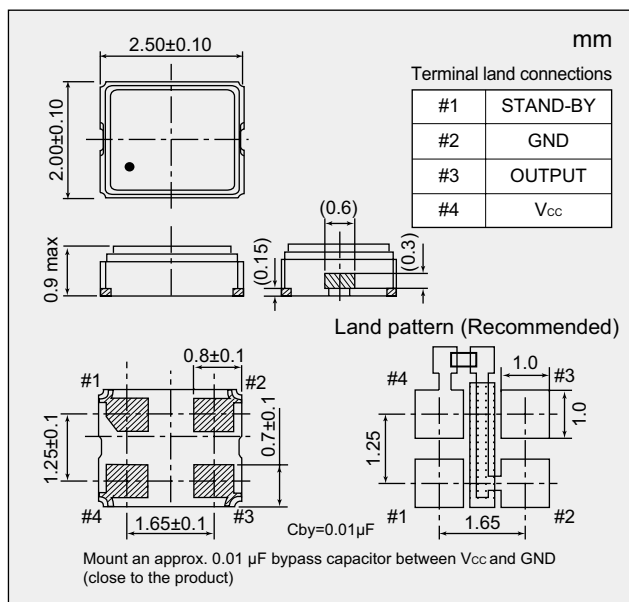
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

Absolute maximum rating
Supply Voltage (V_{CC}) -0.5 to +4.0 V
Storage Temperature Range -55 to +125 °C

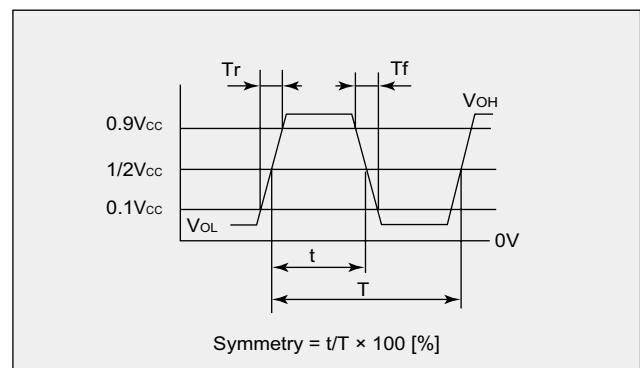
Specifications

| Item | Model | NZ2520SF | | |
|---|----------------------|--|------------|------------|
| Output Specification | | CMOS | | |
| Nominal Frequency Range | (MHz) | 1.5 ≤ F ≤ 50 | | |
| Overall Frequency Tolerance | (×10 ⁻⁶) | ±50 | ±30 | |
| Operating Temperature Range | (°C) | -40 to +85 | -10 to +70 | |
| Supply Voltage | (V) | +0.9 to +1.5 | | |
| Current Consumption Max. | During Operation | +25 °C | (mA) | 1.5 to 6.0 |
| | During Standby | +25 °C | (μA) | 100 |
| V _{OL} Max. / V _{OH} Min. | (V) | 0.1 V _{CC} /0.9 V _{CC} | | |
| Tr Max. / Tf Max. | (ns) | 5/5 | | |
| Symmetry Min. to Max. | (%) | 45 to 55 | | |
| Load (C _L) Max. | (pF) | 15 | | |
| Start-up Time Max. | (ms) | 4 | | |
| Standby function | | Available (Three-state) | | |

Dimensions



Output Waveform <CMOS>



Standby Function

| #1 Input | #3 Output |
|---|-----------------------|
| Level H ($0.7 V_{CC} \leq V_{IH} \leq V_{CC}$) or OPEN is selected. | Oscillation output ON |
| Level L ($V_{IL} \leq 0.3 V_{CC}$) is selected. | High impedance |

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■ Specification Number

| Overall Frequency Tolerance | Operating Temperature Range(°C) | Supply Voltage (V) | | |
|-----------------------------|---------------------------------|--------------------|----------|----------|
| | | +0.9±0.1 | +1.2±0.1 | +1.5±0.1 |
| ±50×10 ⁻⁶ | -40 to +85 | NSA3468E | NSA3477E | NSA3469E |
| ±30×10 ⁻⁶ | -10 to +70 | NSA3468C | NSA3477C | NSA3469C |

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