

NV5032SC

Low Phase Noise Type
Voltage Controlled Crystal Oscillator (VCXO)

Main Application

For communication equipment for ISDN, SDH/SONET, WiMAX, etc. and Base-stations

Features

- Dimensions : 5.0x3.2mm
- Package : Ceramics
- Low phase noise : Typ. -127dBc/Hz (@1kHz) , Typ. -156dBc/Hz (@100kHz)
in case of 122.88MHz
- Low phase jitter : Typ. 0.13ps (12kHz to 20MHz) in case of 122.88MHz
- Low current consumption : Typ. 46mA in case of 122.88MHz
- Frequency Range : 100MHz to 200MHz
- Output Specification : LVPECL



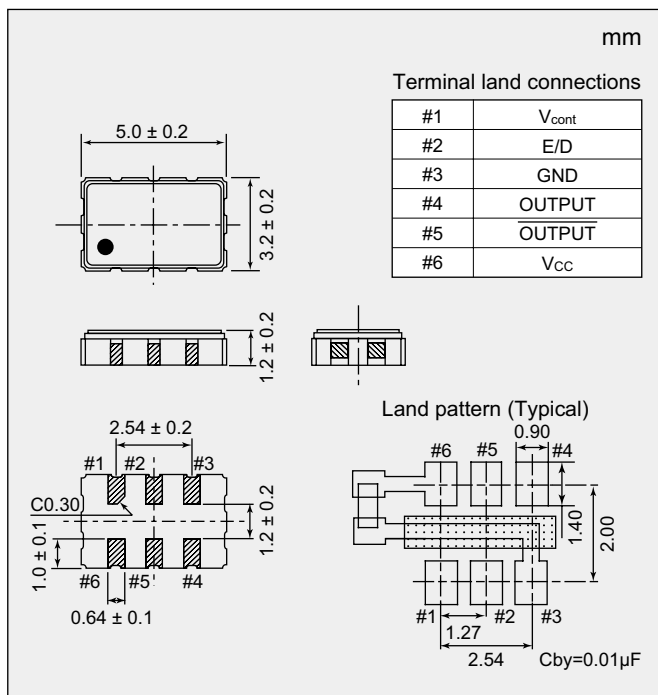
Pb Free

RoHS Compliant
Directive 2011/65/EU

Specifications

| Item | Model | NV5032SC | | | |
|---|-------|---|------------------------|--|------------------------|
| Nominal Frequency Range (MHz) | | 100 ≤ F ≤ 170 | | 170 < F ≤ 200 | |
| Standard Frequency (MHz) | | 122.88, 153.6 | | --- | |
| Supply Voltage[V _{CC}] (V) | | +3.3 ± 10 % | | | |
| Current Consumption (mA) | | Max. 65 | | | |
| Output Specification | | LVPECL | | | |
| Symmetry (%) | | 45 to 55 (V _{CC} -1.3V) | | | |
| Output Load Condition (Ω) | | 50 (V _{CC} -2.0V) | | | |
| Operating Temperature Range (°C) | | -40 to +85 | | | |
| Storage Temperature Range (°C) | | -55 to +125 | | | |
| Overall Frequency Tolerance | | Max. ±50 × 10 ⁻⁶ | | | |
| Frequency Control Range / Control Voltage [V _{cont}] | | Min. ±100 × 10 ⁻⁶ / +1.65 ± 1.65 V | | Min. ±90 × 10 ⁻⁶ / +1.65 ± 1.65 V | |
| Phase Jitter [RMS] (ps) | | Max. 1 (Typ. 0.13) (12kHz to 20MHz) | | | |
| Frequency Change Polarity | | Positive | | | |
| Enable / Disable function | | Enable Low Level type | Enable High Level type | Enable Low Level type | Enable High Level type |
| Specification Number | | NSA3613A | NSA3614A | NSC5173A | NSC5174A |

Dimensions



List of Enable / Disable function

Enable Low Level type

| Input (#2) | Output (#4) | Output (#5) |
|---|----------------------|---------------------|
| High Level (Min. 0.7 V _{CC}) | Disable (High Level) | Disable (Low Level) |
| Low Level (Max. 0.3 V _{CC}) or Open | Enable | Enable |

Enable High Level type

| Input (#2) | Output (#4) | Output (#5) |
|--|----------------------|---------------------|
| High Level (Min. 0.7 V _{CC}) or Open | Enable | Enable |
| Low Level (Max. 0.3 V _{CC}) | Disable (High Level) | Disable (Low Level) |

Reference Value

| Phase noise (at 122.88MHz) | Offset Frequency | dBc / Hz |
|----------------------------|------------------|-----------|
| | 10Hz | Typ. -70 |
| | 100Hz | Typ. -100 |
| | 1kHz | Typ. -127 |
| | 10kHz | Typ. -148 |
| | 100kHz | Typ. -156 |
| 1MHz | Typ. -156 | |

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