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[NT3225SA-19.200000MHZ-T2](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Specification of Quartz Crystal Controlled Oscillators

- 1 **NDK Part Number** NT3225SA-19.2M-DJA3002A
- 2 **NDK Specification Number** DJA3002A
- 3 **Type** NT3225SA
- 4 **Rating**
 - 4.1 Nominal Frequency (f_{nom}) 19.2 MHz (3 digits marking without the decimal point: 192)
 - 4.2 Supply Voltage +2.8 V DC (-Earth)
 - 4.3 Current Consumption Max. 1.5 mA
 - 4.4 Output Voltage Min. 0.8 V_{p-p} Clipped sine wave (DC-Coupling)
 - 4.5 Operable Temperature Range -30 to +75 °C
 - 4.6 Storage Temperature Range -40 to +85 °C
 - 4.7 Load impedance (10 kΩ // 10 pF) +/-10%
 - 4.8 DC-cut Capacitor DC-cut capacitor of output is not put in TCXO.
Please add DC-cut capacitor (1000 pF) in output line.
- 5 **Electrical specification**
 - 5.1 **Frequency Stability**
 - 5.1.1 Frequency / Temperature Characteristics Max. +/-2.5 ppm / -30 to +75 °C (Based on frequency at +25 +/-2 °C)
 - 5.1.2 Frequency / Voltage Coefficient Max. +/-0.3 ppm / +2.8 V +/-0.1 V
 - 5.1.3 Frequency / Load Coefficient Max. +/-0.2 ppm / (10 kΩ // 10 pF) +/-10%
 - 5.1.4 Frequency Tolerance at Control Voltage (V_{cont} = +1.2 V DC) Max. +/-1.5 ppm (at +25 +/-2 °C, before reflow soldering, based on nominal frequency)
 - 5.1.5 Long-term Frequency Stability Max. +/-1.0 ppm / year
 - 5.2 **External Adjustment**
 - 5.2.1 Control Voltage (V_{cont}) +1.2 V +/-1.0 V DC
 - 5.2.2 Frequency control range based on frequency at V_{cont} = +1.2 V DC +/-9.0 to +/-15.0 ppm
 - 5.2.3 Frequency Change Polarity Positive
 - 5.3 **Stabilization Time** Max. 4.0 ms
(+/-0.1 ppm of final frequency final frequency is the frequency after 10 s from the point when supply voltage is reached at +2.8 V. Measurement is done while the control voltage is kept at its typical value at +25 +/-2 °C)
 - 5.4 **Symmetry** 40 to 60 %
 - 5.5 **Phase Noise** Max. -130 dBc/Hz (@1 kHz offset)
- 6 **Dimension**

(Unit: mm)

