

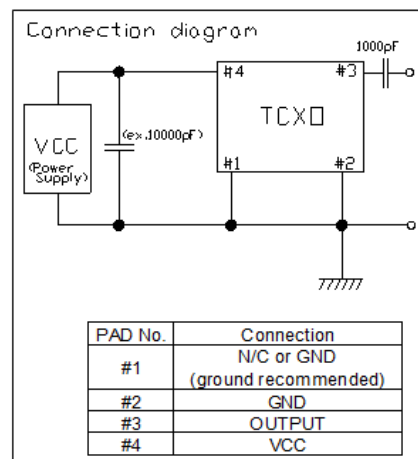
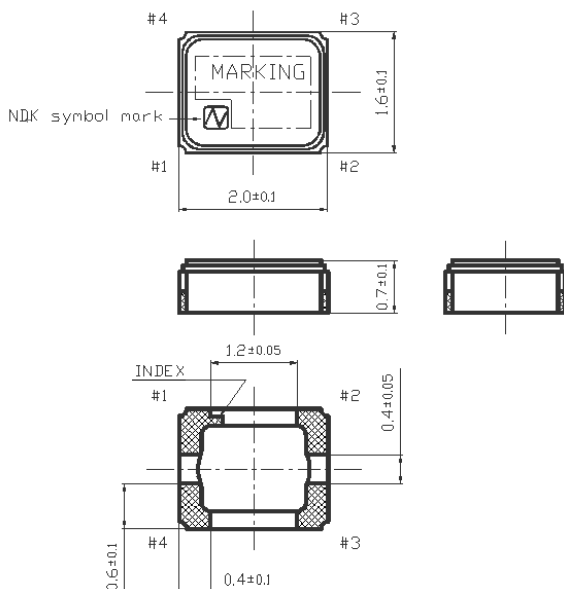


**THE DATASHEET OF
NT2016SA-16.368000 MHZ-NTG1**



<p>1 NDK Part Number</p> <p>2 Chipset Maker</p> <p>3 Application</p> <p>4 Chipset Name</p> <p>5 NDK Specification Number</p> <p>6 Type</p> <p>7 Rating</p> <p>7.1 Nominal Frequency (f_{nom})</p> <p>7.2 Supply Voltage</p> <p>7.3 Current Consumption</p> <p>7.4 Output Voltage</p> <p>7.5 Operable Temperature Range</p> <p>7.6 Storage Temperature Range</p> <p>7.7 Load impedance</p> <p>7.8 DC-cut Capacitor</p> <p>8 Electrical specification</p> <p>8.1 Frequency Stability</p> <p>8.1.1 Frequency / Temperature characteristics</p> <p>8.1.2 Frequency temperature slope</p> <p>8.1.3 Frequency / Voltage coefficient</p> <p>8.1.4 Frequency / Load coefficient</p> <p>8.1.5 Frequency tolerance</p> <p>8.1.6 Long-term Frequency Stability</p> <p>8.2 Short-term frequency stability</p> <p>8.3 Start-up time</p> <p>8.4 Stabilization Time</p> <p>8.5 Harmonic distortion</p> <p>8.6 Symmetry</p> <p>8.7 Phase Noise</p>	<p>NT2016SA-16.368000 MHz-NTG1</p> <p>TEXAS INSTRUMENTS</p> <p>GPS on mobile phone</p> <p>NL5350</p> <p>NSA0345B</p> <p>NT2016SA</p> <p>16.368 MHz (3 digits marking without the decimal point: 163)</p> <p>+2.5 V +/-0.1 V DC (-Earth)</p> <p>Max. 1.5 mA</p> <p>Min. 0.8 V_{p-p} Clipped sine wave (DC-Coupling)</p> <p>-30 to +85 °C</p> <p>-40 to +85 °C</p> <p>10 kΩ // 10 pF</p> <p>DC-cut capacitor of output is not put in TCXO. Please add DC-cut capacitor (1000 pF) in output line.</p> <p>Max. +/-0.5 ppm / -10 to +70°C</p> <p>Max. +/-1.5 ppm / -30 to -10°C, +70 to +85°C (Based on frequency at +25 +/-2 °C)</p> <p>Max. +/-0.05 ppm/°C / -10 to +70°C</p> <p>Max. +/-0.1 ppm/°C / -30 to -10°C, +70 to +85°C (Minimum of one measurement every 2 °C)</p> <p>Max. +/-0.1 ppm / +2.5 V +/-0.1 V</p> <p>Max. +/-0.2 ppm / (10 kΩ // 10 pF) +/-10%</p> <p>Max. +/-2.0 ppm (at +25 +/-2 °C, after 2times reflow soldering, based on nominal frequency)</p> <p>Max. +/-1.0 ppm / year</p> <p>Max. 1.0 ppb (Tau=0.1s)</p> <p>Max. 2.0 ms (to 90% of output amplitude)</p> <p>Max. 2.0 ms (Within +/-0.5ppm of final frequency)</p> <p>Max. -5.0 dBc</p> <p>40 to 60 %</p> <p>Max. -86 dBc/Hz (at 10 Hz offset)</p> <p>Max. -112 dBc/Hz (at 100 Hz offset)</p> <p>Max. -134 dBc/Hz (at 1k Hz offset)</p> <p>Max. -148 dBc/Hz (at 10k Hz offset)</p> <p>Max. -150 dBc/Hz (at 100k Hz offset)</p>
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9 Dimension of external (Unit: mm)



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