Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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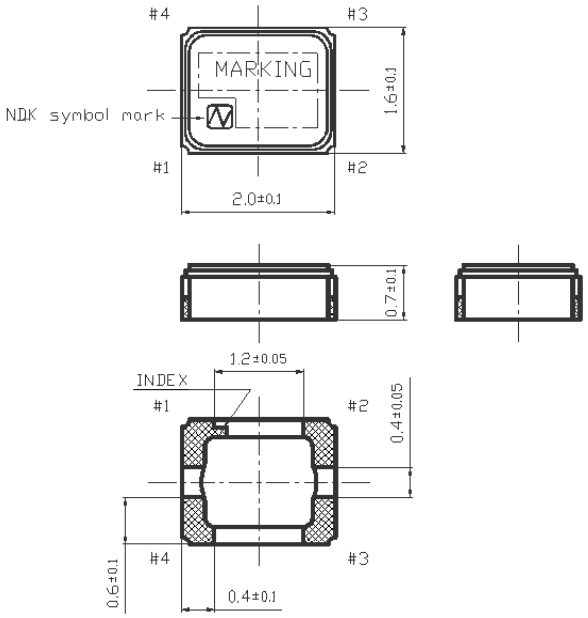
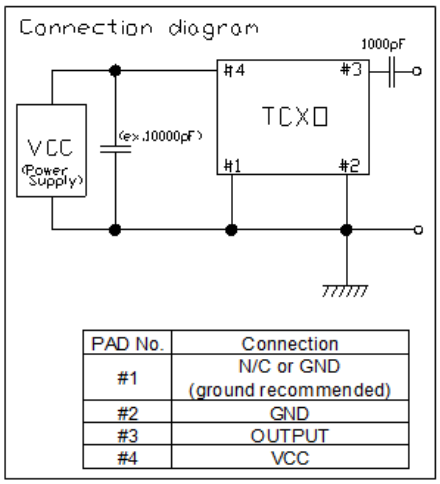
Specification of Quartz Crystal Controlled Oscillators

1	**NDK Part Number**	NT2016SA-26.000000MHz-NBG2
2	**Chipset Maker**	Please contact us
3	**Application**	GPS on mobile phone
4	**Chipset Name**	Please contact us
5	**NDK Specification Number**	NSA0345C
6	**Type**	NT2016SA
7	**Rating**	
7.1	Nominal Frequency (f_{nom})	26 MHz (2 digits marking)
7.2	Supply Voltage	+1.8 V +/-5 % DC (-Earth)
7.3	Current Consumption	Max. 1.5 mA
7.4	Output Voltage	Min. 0.8 V_{p-p} Clipped sine wave (DC-Coupling)
7.5	Operable Temperature Range	-30 to +85 °C
7.6	Storage Temperature Range	-40 to +85 °C
7.7	Load impedance	10 kΩ // 10 pF
7.8	DC-cut Capacitor	DC-cut capacitor of output is not put in TCXO. Please add DC-cut capacitor (1000 pF) in output line.
8	**Electrical specification**	
8.1	**Frequency Stability**	
8.1.1	Frequency / Temperature characteristics	Max. +/-0.5 ppm / -30 to +85 °C (Based on frequency at +25 +/-2 °C)
8.1.2	Frequency temperature slope	Max. +/-0.1 ppm/°C / -30 to +85°C (Minimum of one measurement every 2 °C)
8.1.3	Frequency / Voltage coefficient	Max. +/-0.1 ppm / +1.8 V +/-5 %
8.1.4	Frequency / Load coefficient	Max. +/-0.2 ppm / (10 kΩ // 10 pF) +/-10%
8.1.5	Frequency tolerance	Max. +/-2.0 ppm (at +25 +/-2 °C, after 2times reflow soldering, based on nominal frequency)
8.1.6	Long-term Frequency Stability	Max. +/-1.0 ppm / year
8.2	Short-term frequency stability	Max. 1.0 ppb (Tau=0.1s)
8.3	Start-up time	Max. 2.0 ms (to 90% of output amplitude)
8.4	Stabilization Time	Max. 2.0 ms (Within +/-0.5ppm of final frequency)
8.5	Harmonic distortion	Max. -5.0 dBc
8.6	Symmetry	40 to 60 %
8.7	Phase Noise	Max. -83 dBc/Hz (at 10 Hz offset) Max. -108 dBc/Hz (at 100 Hz offset) Max. -132 dBc/Hz (at 1k Hz offset) Max. -146 dBc/Hz (at 10k Hz offset) Max. -150 dBc/Hz (at 100k Hz offset)

9 Dimension of external (Unit: mm)





PAD No.	Connection
#1	N/C or GND (ground recommended)
#2	GND
#3	OUTPUT
#4	VCC