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!

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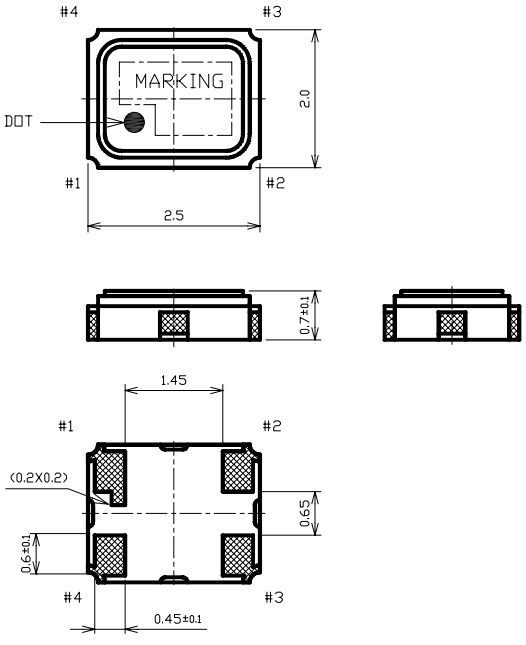
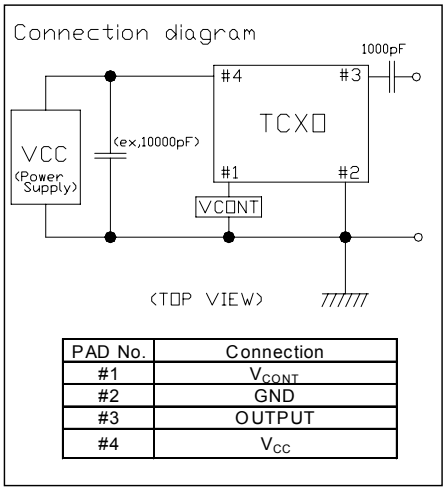
Specification of Quartz Crystal Controlled Oscillators

1	**NDK Part Number**	NT2520SA-26M-DJA3001A
2	**NDK Specification Number**	DJA3001A
3	**Type**	NT2520SA
4	**Rating**	
4.1	Nominal Frequency (f_{nom})	26 MHz (2 digits marking)
4.2	Supply Voltage	+2.4 V +/-0.1 V DC (-Earth)
4.3	Current Consumption	Max. 1.1 mA (Typ. 0.9 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
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. +/-0.2 ppm / +2.4 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. +/-2.5 ppm (at +25 +/-2 °C, after two reflows, based on nominal frequency)
5.1.5	Long-term Frequency Stability	Max. +/-2.0 ppm / 5 years
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+2.4 V. Measurement is done while the control voltage is kept at its typical value at +25 +/-2 °C)
5.4	Symmetry	40 to 60 % (Based on GND. The output signal after DC cut capacitor passage)
5.5	Harmonic Distortion	Max. -5 dBc
5.6	Phase Noise	Max. -130 dBc/Hz (@1 kHz offset)
6	**Dimension**	

(Unit: mm)





PAD No.	Connection
#1	V_{CONT}
#2	GND
#3	OUTPUT
#4	V_{CC}