

## SPECIFICATION

1. Type  
NT2016SA
2. Maximum rating
  - 2.1 Supply Voltage  
-0.6 to +4.6 V
  - 2.2 Storage Temperature Range  
-40 to +85 °C
3. Rating
  - 3.1 Nominal frequency  
16.368 MHz ( 3 digits marking without the decimal point : 163)
  - 3.2 Supply voltage (Vcc)  
+2.5V±0.1 V DC(-Earth)
  - 3.3 Current consumption  
Max. 1.5 mA
  - 3.4 Output voltage  
Min. 0.8 Vp-p Clipped sine wave (DC-Coupling)
  - 3.5 Operating temp. range  
-30 to +85 °C
  - 3.7 Load impedance  
10 kΩ//10 pF
  - 3.8 DC-cut capacitor  
DC-cut capacitor of output is not put in TCXO.  
Please add DC-cut capacitor (1000 pF) in output line.
4. Electrical specification
  - 4.1 Frequency stability
    - 4.1.1 Frequency/Temperature characteristics  
Max. ±0.5 ppm / -10 to +70°C  
Max. ±1.5 ppm / -30 to -10°C, +70 to +85°C  
(Based on frequency at +25 ±2 °C)
    - 4.1.2 Frequency temperature slope  
Max. ±0.05 ppm/°C / -10 to +70°C  
Max. ±0.1 ppm/°C / -30 to -10°C, +70 to +85°C  
(Minimum of one measurement every 2 °C)
    - 4.1.3 Frequency/Voltage coefficient  
Max. ±0.1 ppm / +2.5 V±0.1 V
    - 4.1.4 Frequency/Load coefficient  
Max. ±0.2 ppm / (10 kΩ//10 pF) ±10 %
    - 4.1.5 Frequency tolerance  
Max. ±2.0 ppm (at +25 ±2 °C, after 2times reflow soldering, based on nominal frequency)
    - 4.1.6 Long-term frequency stability(at +25 ±2 °C)  
Max. ±1.0 ppm / year
  - 4.2 Short-term frequency stability  
Max. 1.0 ppb (Tau=0.1s)
  - 4.3 Start-up time  
Max. 2.0 ms (to 90% of output amplitude)
  - 4.4 Stabilization time  
Max. 2.0 ms (Within ±0.5ppm of final frequency)

