Crystal Clock Oscillator NEW





NZ2016S Series

For OA, AV, and short-range wireless

■ Model name

NZ2016SA Overall frequency tolerance of ±50 x 10-6.

■ Application

• For mobile camera module, DVC, DSC, notebook PC, and PDA





Absolute maximum rating Supply voltage (Vcc) -0.5 to +4.0 V

Storage temperature range -55 to +125 °C

■ Features

- Ultra-compact and light. Dimensions: 2.0 x 1.6 x 0.7 mm, weight: 0.01 g.
- Supply voltage of +3.3 V ideal for low-power and power-saving type products.
- · Seam sealing gives high reliability.
- Wide frequency range: 1.5 to 80 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.

■ Specifications

ltem Model				NZ2016SA							
Output level				CMOS							
Nominal frequency range *1			(MHz)	1.5 ≤ F < 10	10 ≤ F < 20	20 ≤ F < 30	30 ≤ F < 40	40 ≤ F < 50	50 ≤ F < 60	60 ≤ F < 70	70 ≤ F ≤ 80
Operating temperature range *2			(°C)	-40 to +85							
Overall frequency tolerance			(×10 ⁻⁶)	±50							
Current	During operation	+3.3 V, 25 °C	(mA)	3.5	4.5	5.0	5.5	6.0	7.0	8.0	9.0
consumption max	During standby	+3.3 V, 25 °C	(µA)	10							
Vol max/Voн min			(V)	0.1 Vcc/0.9 Vcc							
Tr max/Tf max			(ns)	5/5							
Symmetry min. to max. ((%)	45 to 55							
Load (C _L) max (pF			(pF)	15							
Start-up time max (ms)			(ms)	4							
Standby function			Available (Three-state)								

^{*1:} If you require a product with a frequency not given above, please contact us.

■ List of Codes for Placing an Order

List of Codes for Placing an Order	NSA3442F		
Supply voltage (Vcc)	(V)	+3.3±0.33	

^{*2:} If you require a product with an operating temperature range not given above, please contact us.

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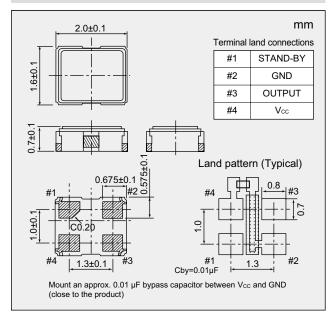




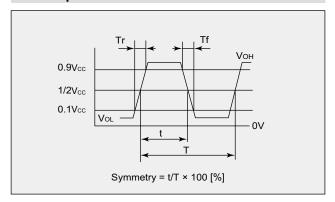
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■ Dimensions



■ Output Waveform <CMOS>



■ Standby Function

#1 Input	#3 Output			
Level H (0.7 $V_{CC} \le V_{IH} \le V_{CC}$) or OPEN is selected.	Oscillation output ON			
Level L (V _{IL} ≤ 0.3 V _{CC}) is selected.	High impedance			

■ How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name - Frequency (up to 9 digits) M - Number for specifying an order

Example: When ordering a product with model name: NZ2016SA, frequency: 20 MHz, and supply voltage: 3.3 V Ordering Code: NZ2016SA - 20.000000M - NSA3442F

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (http://www.ndk.com/).